ACTCTTTTGA	ATTCCTTTAC	ATCTTCATCT	GTAATCTCGT	ATAAGGCATT	TATAAATTCA	17580
ACTTTAAATG	TCCCAGGAAG	ATGTCCATTT	GGACGTTTTT	CTGCTATTTC	TCCAGCGATA	17640
TTGTAAACCA	ACACTGCTGT	TTTTAATGAT	TTCAATTCTT	GACCTTTTTC	TAGTCCGATA	17700
AAGCTTGCTA	CTACAGCTCC	TAATAAGCAT	CCTGTCCCAA	TGACTTTCGG	CATCATAGCA	17760
CTACCATTAT	GAATCATTAC	CACTTCTCCA	TTAACAGCAA	TGGCATCCAC	TTCACCTGTT	17820
ACTACTATTG	GAATATTGAA	CTTCTCATTT	GCTGCTAGAG	CAATTTCGTC	AATATTATCT	17880
ACGCCCGCAC	TATCTACTCC	TTTAGATGCC	ACATCTATTC	CTACTAAAGA	GGCAATCTCG	17940
CCAGCATTTC	CTCTAATCGC	TGCTAGTTTA	TAATTGTTGA	TTAGATCATC	TGCTACTTTT	18000
TTTCTATATT	CTCCTGCTCC	ACAGGCTACA	GGATCTAAAA	CTGCTGGGAC	АТТАТАТТТС	18060
TCTGCAATTT	TCAGAGCAGC	TTGGTATAAT	TTCCAATTTT	CATCTGTCAA	TGTTCCTATG	18120
TTTATTAATA	AACCACCAGC	ATACTTTAAC	AAATCCTCTA	AATCTGCTGG	AAACTCACTC	18180
ATGGCTGGTG	AGGCGCCCAG	TGCTACTAAT	CCATTTGCTG	TGAAATTTTT	TACTACATCA	18240
TTGGTTATAC	AAATGACCAA	TGGTGCTTTT	TCTTTTAATA	ATTTTAAACT	TGTCATATTG	18300
AAATCCTTCC	TTTTCACTTT	ATACGATCTA	СТААТТТССА	TTTATCTTTA	GTTGAGAATT	18360
TTTTTCATTT	ACATTGAATG	ATTTATACTC	AATGAAAATC	AAAGAGCAAA	CTAGGAGGCT	18420
AACCGCAGGT	TGCTCAAAAC	ACTGTTTTGA	GGTTGTGGAT	AGAACTGACG	TGGTTTGAAG	18480
AGATTTTCGA	AGAGTCTTAC	CTCATCAAAT	TTGTAAATAT	CATGAGCCTT	CTCTAGACAT	18540
CGTAACCAAT	АТСАААААА	GCTAATTCTA	AAGCGACTGC	TTGATTCCAG	CGTTGCTGAA	18600
GTTCTGTCAA	ATCTTCTCGA	TTTTTACCGA	CACGATTGAG	TTCGTCAACC	AGAAATTGAA	18660
CCCACTCTGC	AAAGAAAGGA	CCTCTGTGGA	GATTGATCCA	TTCCGAATGA	ATATAGACTT	18720
CAGGTAAAGC	CAAATCTTTA	GAACCCCAGT	CTAAATAGAG	ACCTTCTGCA	ATGACCAGCA	18780
TGACCAAAAG	ATGGGCATAG	TCTGATGAAG	CCACCGCCGA	ATACATTAGA	TCCTGAAAGG	18840
CTTTTGTTAC	AGGGTGCAAA	GTCACTTCTA	GATAGTCATT	CTCTGCTACT	TTTAACTCTT	18900
TAAAAGCCTT	TTGGAAATAA	CCATCTTCAT	CTGCTTCAAG	AAAGCCTAGT	TGCTTGGCAA	18960
AACGAAGCTT	GGATTCAAGT	TTATCTGCGT	GACTACGCAG	GCACCCAGCA	TGGATAAGAA	19020
GGCATCAAAG	AAGTGATAAT	CTTGAATCAG	ATAGTCCTTT	AAGACCTTAT	TCTCAATTGT	19080
CCCCGCAAAA	AGTTCCTTAA	CAAAACGATG	ATTGATTGCA	GCCTGCCAAT	CCTTCTGACT	19140
GCTTTTTAAT	AATTCTCCAA	CAGTCAAACC	TGGCTGAAAT	GCATAGTCTT	GTGTTTCCAT	19200
ATTTACTTCT	CCTCTCTTTA	CTTGTTAGTA	АТТААТААА	CACCAAGAAA	TATCAAGCAA	19260

AATCGTAATT CCACTTGATC CTTTTAAAGC ACATCGAGAG CATTTGCAGA GAGCTAACTA 19320 AACAAGCCTA TCCAGTTTAT ATAAACAAAA AACTCCAATT ACAATCAAGA ATTAGAGTTG 19380 ACTTACAAGA TTAGACCGTT CATTTCACCA TACGAAAAAA CTGTTCACAT TTCCCTTCGC 19440 CAGTCTTAAC TGTATCAGGT TCAATGGGTA TTATCTCAGC CTAAAGCACC CCAAATGTCT 19500 CTATTATTTA ACTACTGAAC CAGTATAGCA AAAAATGAAA GCCCTAGCAA GATATTTGAC 19560 CGAAAAATAT CTTTATATAT AATATATGA AACTAGAATA GTACACCTCT ACTTATAAAA 19620 CATTGTTAGA AATCGATTTG ACTGTCCTGA TTGATTTGTC CTATTCTTAT TTCATTTTAC 19680 TATAGTTTTC GATAGCAATT TATTCTTCCA ATACACGAAG AAAAACCTCC ACATTCAGTG 19740 GAGGCAATCT GTTTTATCAA TACAATTTTA AGTCACGAGG GTCAACTGGG AAGGTTGGGT 19800 TGTATGGATT GTGACGGAGC TTGAAGTGTT TGACATCTTC AATGGTCTGA GTTCCAGACA 19860 ATTGCATAAC TGTCTTCAAT TCCGCATTCA AGTGTTCAAA GACTTGACGC ACACCGACAC 19920 TACCACCGAG AGCCAAGCCA TAGATGACAG GGCGTCCAAT AGCAACCAAG TCTGCTCCTG 19980 ATGCCAAGGC TTTAAAGACG TGTTGACCAC GACGAACACC AGAGTCAAAG ACAATCGGCA 20040 CACGTCTATC AACTGCTTCT GCCACTTCTT GAAGCGAGTC AAAGGCAGCT GGTCCACCGT 20100 CGATTTGACG ACCACCGTGG TTGGTTACCC AGATACCAGA AGCTCCTGCA GCAAGCGAAC 20160 GTTCAACGTC CTCACGGCAT TGTGGTCCCT TGACATACAC AGGAAGACCA GAGTATTCAG 20220 CGATAAATTC TACATCGCGT GGAGACAAGC GTTGTTTAGC TGATTTGTAA ACAAAGTCCA 20280 TTGATTTACC AGCACCTTCT GGCAGGTATT CTTCAACAAT CGGCATGCCA ACTGGGAAGA 20340 CAAAACCATT ACGCTTATCC ACTTCACGAT TCCCCCCTAC AGTAGCATCT GCCGTCAAGA 20400 CAATCGCTTT ATAACCTTCA GCCTTCACAC GGTCCATGAT GTGGCGGTTG ATACCGTCAT 20460 CCTTACTAAA GTAAAATTGA AACCAATGAG GTGTCCCTTG GAGGGCTTCA GAAATCTCTG 20520 GAAGGTCAAC AGTAGAGTAA GAACTGGTTG TATAAAGAGA ACCAAACTCA TGCACACCAC 20580 GCGCAGTCGC CACTTCCCCC TGTTCATTTG CCAATTTATG AGCCGCAACA GGTGCCATAA 20640 TGATTGGAGA AGATAGTTTT TCACCTGCAA ATTCAATCTC TGTACTTGGA TTTTCTACAT 20700 TGCAAAGTGT ATGAGGAACG ATGAGCTTGT GGTTAAAGGC ACGGATATTC TCTCTTAAAG 20760 TGAAAGTATC TTCCGCCCCA CTAGCGATAT AGCCAAATGC TGCTTTAGGA ATAACTTGTT 20820 GCGCCATTGG CTCCAAATCA TAGGTATTGA TGAALTCTAC ATGACCTTCT GCATTGCTTG 20880 TTTTGTATGA CATAAAATGT CCTCCTTAAT AAGTAAGCGT TTACTTTGTG TATTACAAAA 20940 ATATCTTAAC TCTTTTCAA AACTTTTAAA ATATTTTGTT TGGAAATTTC AGAAATTTTA 21000

TGTCTATGAT AAAAATCCTT ATAACGGCAA TAAAAAATAG ATATTATCCA AAGAAGATTT

TAAGTGCTAC AATAACTGTA	TTATTTCTAG	ATGGGAGGTT	CTATTTTTGG	ATTGATCCAT	21120
TGTTGAACAA TATCTACCAC	тататсаааа	GGCATTCTTT	CTGACCTTGC	ATATTGCAGT	21180
TTGGGGAATT TTGGGATCCT	TTCTGCTCGG	TTTAATCGTT	AGTATCATCC	GACATTATCG	21240
AATCCTTGTT TTGGCGCAAG	TAGCGACAGC	CTACATTGAA	TTGTCACGTA	ATACGCCCCT	21300
TTTGATTCAA CTCTTCTTTC	TCTACTTCGG	TCTTCCCCGA	ATCGGGATTG	TCCTATCTTC	21360
AGAAGTCTGT GCAACGCTTG	GGCTTGTCTT	TTTAGGAGGC	TCCTATATGG	CAGAATCTTT	21420
CCGAAGTGGG CTGGAAGCCA	TCAGTCAAAC	CCAGCAGGAG	ATTGGCCTCG	CTATTGGTCT	21480
GACACCTCTA CAGGTCTTTT	ACTATGTGGT	TCTTCCGCAA	GCAACAGCGG	TGGCACTCCC	21540
CTCCTTTAGT GCCAATGTCA	TTTTCCTTAT	CAAGGAAACC	TCTGTTTTCT	CAGCAGTGGC	21600
TTTGGCCGAC CTCATGTACG	TCGCCAAGGA	TTTGATTGGT	CTCTACTATG	AGACAGACAT	21660
TGCGCTAGCT ATGTTGGTAG	TTGCTTATCT	AATCATGCTG	CTACCCATCT	CACTGGTCTT	21720
TAGCTGGATA GAAAGGAGGC	TCCGCCATGC	AGGATTCGGG	AATCCAAGTA	CTCTTTCAAG	21780
GAAATAATCT CCTGAGAATC	TTACAGGGAT	TGGGCGTTAC	GATTGGGATA	TCCATCCTGT	21840
CTGTCCTCTT ATCCATGATG	TTCAGAACAG	TCATGGGAAT	CATCATGACC	TCCCATTCTA	21900
GAATCATACG ATTTTTAACA	CGATTGTATC	TGGAATTTAT	CCGTATCATG	CCCCAGCTGG	21960
TGCTACTCTT CATCGTTTAC	TTTGGCTTGG	CTCGAAACTT	TAATATCAAT	ATCTCAGGTG	22020
AGACTTCAGC TATTATCGTT	TTTACCCTCT	GGGGAACAGC	TGAAATGGGA	GACTTGGTAC	22080
GTGGAGCTAT CACTTCTCTC	CCTAAACATC	AGTTTGAAAG	TGGACAGGCA	CTCGGCTTGA	22140
CTAATGTTCA ACTTTACTAC	CACATCATCA	TCCCACAAGT	CTTAAGAAGA	CTGCTACCGC	22200
AGGCTATCAA TCTTGTCACT	CGGATGATTA	AAACCACTTC	ATTAGTTGTT	TTGATTGGGG	22260
TTGTGGAAGT GACCAAAGTT	GGACAACAAA	TCATCGATAG	CAATCGCCTG	ACCATCCCAA	22320
CTGCTTCATT TTGGATTTAT	GGAACCATTC	TAATCTTATA	TTTCGCAGTT	TGCTACCCTA	22380
TTTCCAAACT ATCCACTCAC	TTAGAAAAAC	ATTGGAGAAA	CTAAATGTCT	GAAACTATCT	22440
TAGAAATCAA GGAACTAAAA	AAATCCTTCG	GAGACAATCC	CATCCTCCAA	GGACTTTCTC	22500
TAGAAATCAA AAAAGGGGAA	GTTGTTGTCA	TCCTAGGGCC	ATCTGGTTGT	GGGAAAAGTA	22560
CCCTCCTTCG TTGCCTCAAC	GGCTTAGAAA	GTATTCAAGG	TGGAGATATT	CTTCTGGATG	22620
GTCAGTCTAT CGTTGAAAAT	AAAAAAGATT	TTCACCTAGT	TCGCCAAAAG	ATTGGCATGG	22680
TCTTTCAAAG TTATGAACTC	TTTCCCCATC	TGGATGTCTT	ACAAAACCTC	ATCCTAGGCC	22740
CTATCAAAGC TCAAGGAAGG	GACAAGAAAG	AAGTAACGGA	AGAAGCTTTG	CAATTACTAG	22800

			444	•		
AGCGTGTCGG	TTTGCTGGAT	AAACAACATA	GCTTTGCCCG	TCAATTATCT	GGTGGACAGA	22860
AGCAACGTGT	TGCAATTGTC	CGTGCCCTCC	TAATGCATCC	AGAAATCATC	CTTTTTGACG	22920
AGGTGACTGC	TTCGCTGGAT	CCAGAAATGG	TGCGTGAGGT	GCTGGAACTT	ATCAATGATT	22980
TGGCCCAAGA	AGGCCGTACC	ATGATTTTAG	TAACCCACGA	AATGCAGTTT	GCCCAAGCCA	23040
TTACTGACCG	GATTATCTTC	CTCGACCAAG	GGAAAATCGC	TGAAGAAGGA	ACAGCTCAAG	23100
CCTTCTTTAC	CAATCCGCAA	ACCAAACGAG	CCCAGGAATT	TTTAAACGTC	TTTGACTTTA	23160
GCCAATTCGG	СТСАТАТСТА	TAAAGGAGAT	TCTTATGAAA	CTATTCAAAC	CACTCTTAAC	23220
TGTTTTAGCA	CTTGCCTTTG	CCCTTATCTT	TATCACTGCT	TGTAGCTCAG	GTGGAAACGC	23280
TGGTTCATCC	TCTGGAAAAA	CAACTGCCAA	AGCTCGCACT	ATCGATGAAA	TCAAAAAAAG	23340
CGGTGAACTG	CGAATCGCCG	TGTTTGGAGA	TAAAAAACCG	TTTGGCTACG	TTGACAATGA	23400
TGGTTCTTAC	CAAGGCTACG	CTACGATATT	ĠAACTAGGGA	ACCAACTAGC	TCAAGACCTT	23460
GGTGTCAAGG	TTAAATACAT	TTCAGTCGAT	GCTGCCAACC	GTGCGGAATA	CTTGATTTCA	23520
AAC <b>AA</b> GGTAG	ATATTACTCT	TGCTAACTTT	ACAGTAACTG	ACGAACGTAA	GAAACAAGTT	23580
GATTTTGCCC	TTCCATATAT	GAAAGTTTCT	CTGGGTGTCG	ТАТСАССТАА	GACTGGTCTC	23640
ATTACAGACG	TCAAACAACT	TGAAGGTAAA	ACCTTAATTG	TCACAAAAGG	AACGACTGCT	23700
GAGACTTATT	TTGAAAAGAA	TCATCCAGAA	ATCAAACTCC	AAAAATACGA	CCAATACAGT	23760
GACTCTTACC	AAGCTCTTCT	TGACGGACGT	GGAGATGCCT	TTTCAACTGA	CAATACGGAA	23820
GTTCTAGCTT	GGGCGCTTGA	AAATAAAGGA	TTTGAAGTAG	GAATTACTTC	CCTCGGTGAT	23880
CCCGATACCA	TTGCGGCAGC	AGTTCAAAAA	GGCAACCAAG	AATTGCTAGA	CTTCATCAAT	23940
AAAGATATTG	AAAAATTAGG	CAAGGAAAAC	TTCTTCCACA	AGGCCTATGA	AAAGACACTT	24000
CACCCAACCT	ACGGTGACGC	TGCTAAAGCA	GATGACCTGG	TTGTTGAAGG	TGGAAAAGTT	24060
GATTAGTCAT	TAACTCTTAA	AAGGAACTGG	ATTTTAAGCT	CCAATCCCTT	TTTAAGATTT	24120
TACCTATAAC	ATCCTGAGTC	TATCTAAGAT	GTTCAATCTG	AACACAGTGT	ACATACTTTA	24180
TCTTCTATTG	CATATACTTT	ATCACATAAG	ATACGAATAT	CCTCTTCACT	ATGACTAGCA	24240
ATCAAAATTG	TTGTCCCTTT	TTCACTAGAG	AGCTTTCTAA	ACAATGTTCT	CATATTTTCT	24300
ACACTTGATT	TATCCAAGGC	ATTCATAGGT	TCATCTAGTA	AAAGAATAGA	GGGATTCTCC	24360
ATAATTGCTT	GAGCAATCCC	TAGCTTTTTC	CTCATACCTA	GCGAATAAGT	TTTAACTTTC	24420
rggtcttttt	GCTCATATAG	ACCAACTATT	TTCAGTGTAT	CATTGATTTC	CTGATTACCA	24480
ACTACTCCTC	GTATGCTTGC	CAAATATTGT	AAATTCTTAA	AGCCACTATA	ATAATTTATA	24540
AAACCAGGTT	CTTCAATCAA	AGCTCCCAAA	TTAGCTGGAA	TTTTTCTCTC	AGGAACAATA	24600

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TTTTCCCCAT	TGATTAACAC	TTCTCCATAA	GACGGACTAT	ATAAACCAGC	TATTAATTTA	24660
AACAATACAC	TTTTCCCTGA	GCCATTCGCA	CCAGTAATTC	CTATAATTTC	CCCCTGTTTA	24720
CAACTAAAGT	TAAGGTTTTG	AAAAACACAT	GTCTTTTTTA	ATTTCAACTC	AATATTTTTT	24780
AATGTAATTA	TTTCATTCAT	TCTATAAACC	TCCTCTTTTG	ACGAGTGAAA	TAGAAAATGC	24840
TTTGAAAAAG	AAAGACTAAA	AATAGCAACT	GAAGAAATAA	ATCTCGTCCT	ATATCTCCAT	24900
TCCCTCGATT	СААААТАТАА	AATAGATAAT	TAGTTCGATT	TCCTACAAAT	AGACCACCAA	24960
ACACAATCAT	GAGTAAAAAG	AAACTAACGC	AAGCAAAGTT	CG		25002

### (2) INFORMATION FOR SEQ ID NO: 49:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 11443 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 49:

CAGGTACGGT	GAGGCGCAAC	AATATAAAT	TTTTCATCTT	GATTAGGAAT	TTTATCAGTA	60
TTATGATAGT	GAGCATTGCC	ATTGATGGAC	CATAAGAGCA	АТАСААСТАА	TCCACGCAAA	120
TAAGTATAAA	ACATGCGATC	TCCTTCGATT	GTTTTCTTGT	TATTATTATA	*CCTTATCAAA	180
GGAGGGCTGG	CAAACTTTTC	CCTTGACTAG	ATACATATTT	AGGATGAAAT	TAGAATTCTG	240
AAAAAATT	TGATATAATA	GAATTTATGG	АТАААААТАА	GATTATGGGA	ТТААСССААА	300
GAGAAGTCAA	GGAAAGACAG	GCTGAGGGTT	TGGTCAATGA	CTTTACCGCA	TCAGCCAGTA	360
CCAGCACTTG	GCAAATCGTT	AAACGAAATG	TCTTTACCCT	TTTTAACGCT	TTGAACTTTG	420
CCATTGCTTT	GGCTCTTGCC	TTTGTGCAGG	CTTGGAGCAA	TCTGGTCTTC	TTTGCTGTTA	480
TCTGCTTTAA	CGCTTTTTCT	GGGATTGTGA	CCGAGCTACG	AGCCAAACAC	ATGGTGGACA	540
AGCTCAATCT	CATGACCAAG	GAAAAGGTCA	AAACCATCCG	TGATGGTCAG	GAAGTTGCTC	600
TTAATCCTGA	AGAATTAGTG	CTAGGAGATG	TCATTCGTTT	GTCTGCAGGA	GAGCAGATTC	660
CTAGTGATGC	CTTGGTTTTG	GAAGGCTTTG	CGGAAGTCAA	TGAAGCCATG	TTAACGGGAG	720
AAAGTGATTT	GGTGCAAAAG	GAAGTTGACG	GCTTACTTTT	GTCAGGAAGT	TTCCTAGCCA	780
GTGGGTCAGT	TTTATCTCAA	GTTCACCATG	TCGGTGCAGA	CAACTATGCT	GCCAAACTCA	840
TGCTTGAGGC	TAAGACCGTT	AAACCCATCA	ACTCCCGTAT	CATGAAATCG	CTGGACAAGT	900
TGGCTGGTTT	TACTGGGAAG	ATTATCATTC	CCTTTGGTCT	GGCTCTCTTG	CTGGAAGCCT	960

TGCTTTTAAA AGGCCTGCCT CTCAAGTCAT CCGTTGTAAA CTCGTCGACA GCTCTTTTGG 1020 GAATGTTGCC TAAGGGAATT GCCCTTTTGA CCATTACTTC GCTCTTGACT GCAGTGATTA 1080 AGTTGGGCTT GAAAAAGGTC TTGGTGCAGG AGATGTACTC TGTTGAGACC TTGGCGCGCG 1140 TGGATATGCT CTGTCTGGAC AAGACGGGTA CCATCACCCA AGGAAAGATG CAGGTGGAGG 1200 CTGTTCTTCC GTTGACGGAA ACGTATGGTG AAGAGGCTAT TGCCAGCATC TTGACTAGCT 1260 ACATGGCCCA TAGTGAGGAT AAGAATCCAA CTGCCCAAGC CATTCGCCAG CGTTTTGTGG 1320 GAGATGTTGC TTATCCTATG ATTTCCAATC TTCCCTTCTC GAGCGACCGC AAGTGGGGGG 1380 CTATGGAGTT AGAAGGCTTG GGGACAGTTT TCTTAGGGGC ACCTGAGATG TTGCTTGATT 1440 CTGAAGTCCC AGAAGCTAGG GAGGCCTTGG AGAGAGGATC ACGTGTCTTG GTCTTAGCTC 1500 TCAGTCAGGA GAAATTAGAC CATCACAAAC CACAGAAACC ATCTGATATT CAGGCTCTAG 1560 CCTTGCTGGA AATCTTGGAC CCCATTCGAG AGGGAGCAGC AGAGACGCTG GACTATCTCC 1620 GTTCTCAGGA GGTGGGACTC AAGATTATCT CTGGTGACAA TCCAGTTACG GTGTCCAGCA 1680 TTGCCCAGAA GGCTGGTTTT GCGGACTATC ACAGCTATGT AGATTGCTCA AAAATCACCG 1740 ATGAGGAATT GATGCCCATG GCGGAGGAGA CAGCTATTTT CGGACGTGTT TCCCCTCATC 1800 AAAAGAAACT CATCATCCAA ACGTTGAAAA AAGCGGGACA TACAACGGCT ATGACAGGGG 1860 ACGGGGTTAA TGATATCTTG GCCCTTCGTG AGGCGGATTG TTCTATCGTG ATGGCGGAGG 1920 GGGATCCAGC AACCCGTCAG ATTGCCAATC TGGTTCTCTT GAACTCAGAC TTTAATGATG 1980 TTCCTGAGAT TCTCTTCGAG GGTCGTCGCG TGGTCAATAA CATTGCCCAC ATCGCCCCGA 2040 TTTTCTTGAT AAAGACCATC TATTCCTTCC TGTTAGCAGT CATCTGTATT GCCAGTGCTT 2100 TACTAGGTCG GTCAGAGTGG ATTTTGATTT TCCCCTTCAT TCCGATCCAG ATTACCATGA 2160 TTGACCAGTT TGTGGAAGGT TTCCCACCAT TCGTTCTGAC TTTTGAGCGA AATATCAAAC 2220 CTGTTGAGCA GAATTTCCTC AGAAAATCCA TGCTTCGTGC CCTACCAAGC GCTCTCATGG 2280 TCGTCTTCAG CGTCCTGTTT GTGAAAATGT TTGGCGCGAG TCAAGGTTGG TCTGAGTTAG 2340 AAATCTCAAC TCTACTCTAT TATCTCTTGG GGTCAATTGG TTTCTTATCC GTATTTAGAG 2400 CCTGCATGCC ATTTACCCTA TGGCGTGTCC TCTTGATTGT TTGGTCAGTA GGAGGTTTCC 2460 TAGCCACAGC TCTCTTCCCA AGAATTCAAA AACTGCTTGA AATTTCAACC TTAACAGAAC 2520 AAACGTTGCC TGTTTATGGT GTCATGATGT TGGTCTTTAC CGTGATTTTC ATCCTGACCA 2580 GTCGTTACCA AGCGAAAAA TAAATCAAAA CCACCAGTGT GAACTGGTGG TTTGTTCTGC 2640 GGCTATAAGC CGCTTCTACC GGCCAGGGCC AAAGGCCCAC CGAAATAGCT TCCTCGCGCA 2700 CCACTTTCCC GAGCAGGTGC TAAAGCACCT TAGTTACTTC CTCTTATTTA TTTCGCCAGT 2760

AAACGGATCT	ACTGACTCGA	ATAACGTGAG	CTGGTCTGCT	ACTCTGTCTT	CTTGTAATTG	2820
ATTCTGAATA	TATTCAGCTA	TCACTTTCTG	ATTACGGCCT	ACCGTATCTA	CATAATAGCC	2880
TCTACACCAA	AACTTGCGAT	TGCCATATTT	GTATTTTAAA	TTCGCATGCT	ТАТСАААААТ	2940
CATCAAACTG	CTCTTGCCCT	TTAAATAGCC	CATAAAGGAC	GAAACACTAA	GTTTCGGAGG	3000
AATACTGATA	AGCATGTGAA	TATGGTCTGA	ACAAGCATTC	GCTTCATGGA	TTATTACACC	3060
CTTACGCTCA	CATAAGTCAC	GTATGATTCT	TCCGATACTA	GCTTTGTATC	TGCCATAAAT	3120
GATTTGACGA	CGATATTTGG	GTGCAAAAAC	AATATGATAT	TTACAATTCC	ATGTGGTATG	3180
TGATAAACTT	TGATTATCCT	CTCTCATGAG	GTACCTCCTG	TATGATATGT	TGTAGTGGCG	3240
GAGAAACCAC	TTCTATCTTA	TCATTTTAGG	AGGTTCTTTT	TGTTACCACG	CTAAAAGCTC	3300
TATGGAAcCA	CTAGCATAGC	TAGTGGTTTT	CGGGAGACAA	CAAGAAAGAC	TGCAATCTGT	3360
GGATTGCAGT	TTTTTATACG	ATGGATCTAT	CGTAGATCTG	ATGTGCAAGG	CCTACGTGCC	3420
GATCATCTAT	CGGTGAACCC	AAGAGCGACC	CTCAAGCCTG	CTTGGATTGA	GGTAATAGAT	3480
TCAAATATCT	GTAGTTAGAC	TATTTGAAGT	TTGATGTAAG	AAAGAGAAAG	CGACAGATTG	3540
AAGTAATTT	AACTCTCTTC	TATTGCTAGA	ACAAATGGTC	GGATAGGTTG	GTAGTTTGAA	3600
AATGAAGATG	CTATCTATTG	TTAAATGGAA	CATAGTGTTA	TTTATTAGAA	AATCGTTTGG	3660
ттатттстт	ATCAAATACG	AAAAGCAACT	TAAATATTTC	AACTAAAATA	GATGTTATGA	3720
AGAAAAGGTA	AAATGATTTT	GGCATAGTGA	GGTTCTGTTC	TATTTGATAT	CATATTTTTG	3780
АТАААААСАА	AAATGTCCAT	TGCAAAGGAC	AAAATGCGAA	GTATATTATT	TTTTGAAAGC	3840
GATATAATGG	ATTCATAAAG	GAGGTGTATC	GTGTCTAGAA	AACAAGAACA	AATGGAAACG	3900
TTGTTGCTCC	TTTTGCGAGA	TAGTAAGGAT	TATATATCTG	CTAAAGTATT	GGGAGAAAAA	3960
TTAAATTGCT	CTGATAAAAC	GGTTTATCGC	CTTGTCAAGG	GAATCAACAA	AGATTGTCCG	4020
GTAGAAGCAT	TCATTTTATC	TGAAAAAGGC	AGAGGTTTCA	AATTAAATCC	AAGAAGTTCC	4080
CTCGTGGACG	TTGATGGGAA	TTTTACAGAG	GCTTTTGATC	CTGAAGTAAG	GCGTGAAAAA	4140
TTACTAGAAC	GTCTCTTGTT	GACTGCTCCT	AAGCCACATT	CTATTTATGA	TTTAGGAGAG	4200
GAATTCTACG	TAAGCGAGTC	AGTAGTACTA	AAAGATCGTC	AGATATTACA	AGAGAGTCTA	4260
GCAATTTATG	GGTTAGATTT	AAAAATGAGA	CAACGAAAGC	TTTTTATTGA	TGGGGATGAG	4320
GCTCAAATTC	GTTCAGCCAT	TCTAAATCTA	CTGCCAATGT	TTAATCAGTT	GGATTTAGAG	4380
CAAATTACAC	AGAATAAGGT	TCAGCCTCTT	GACGGAGAAC	TTGCTCACTT	TTGTTTGGGA	4440
TTACTGATTA	CACTTGAGAG	AGAATTGGGG	GTAAACATTC	CCTATCCATA	TAATATAAAT	4500

			448			
ATTTTCTCTC	ACCTGTATAT	TTTTATCAGT	AGGAATCGTC	GTAGTACTAG	TATTCATGTT	4560
GTAGCACCTT	CAAAACCTAC	TATTGTTGAT	GAGAAAATTT	ACAGTGTCTG	TCAAAAAATT	4620
ATTCAAGAAA	TTGAACAATA	TTTTAGGATG	AAGGTTGATG	CAGTTGAGAT	TGACTATCTT	4680
PATCAATACG	TTGTATCTTC	GAGATTGCAA	AAACCATTTT	CTTCCGGGAA	GCTTCCTTTT	4740
rctcagcgag	TTTTAGATGT	CACTCATTAC	TATTTTAGCC	GTATGTGTAT	GGACAATAGA	4800
GAGATTGAAA	CGACAGATCC	TGACTTTGTT	GACTTGGCGA	GTCATATCAG	TCCCTTACTG	4860
AGGAGATTAG	ATAATAGAGT	ACAGATTAAG	AATAGTCTTT	TATCACAAAT	TCTTTTAACC	4920
PATCCTAATC	TGGTTAAAGA	GTTAACAACT	ATTTCTAAAG	AAGTGAGTCT	AGTATTTGGT	4980
TTTGCTTCCT	TGAGTCTGGA	CGAGATTGGT	TTTCTAGTCT	TATATTTTGC	ACGGTTTCAA	5040
GAAAAGCGAG	CACCTCCTCT	AAAAACAGTA	GTGATGTGTA	CATCAGGTGT	CGGAACTTCA	5100
GAGCTTTTAC	GAGCACGATT	AGAAAAGCAA	TTTTCTGAAT	TGGATATTAT	TGATGTAGTT	5160
CTTATCATC	AATTAGATGA	GCTGATAAAT	CTATATCCAG	ATTTAGATTT	CATTGTGACG	5220
ACGGTAGCTT	TGCAGGAACC	AGCAAGTGTC	CCGTTTGTCC	TAGTTAGTGT	TTTTCTAACC	5280
GAGGGTGATA	AACAACGTCT	TCAAGCAAAA	ATTCAGGAGA	TAAACTATGA	ATAATCTTTC	5340
GCTTGTCCTT	ATGGATATAT.	CTGTTCAAAA	TCGTCAAGAA	GCCTACAAAG	AATTAGCAAA	5400
<b>TCAAATCAGC</b>	CTTCTTGTTT	CTGAAGATAC	AGAAAAAATA	GAAGAGCTTC	TATATTACCG	5460
rgagagacag	GGAAGTATAG	AGGTTGCTAA	AGGTGTTCTT	CTACCACATT	GTGAAGGAAA	5520
TADAADTTT	CATGTCTTAG	TGATTACTAG	ATTAAAATCA	CCTATCAGAG	AATGGTCGAA	5580
GGATATCCAG	TGTGTTGACC	TTATTATCGG	TTTGGCCATT	GCAGTATCAC	AGGACAAGTC	5640
atgtattaaa	ACATTGATGA	GAAGACTAGC	AGATGAATCA	TTCATAAATC	AATTAAAACA	5700
STTAACAAAA	GAAGAATTAC	GGGAGATAAT	ATATGGAAAT	CAAAGATATT	CTTAATGTGA	5760
GTCTGATCCA	GACGGATTTA	CAGATGCAGA	GCAAAGAAGA	GGTTTTTGAG	GCATTAGCTC	5820
AACTATTGGT	TGAGACGGGT	TATGTGTCTG	ATAGAGACCA	ATTTATCGAA	GGTCTTTATC	5880
AGAGAGAGGC	AGAAGGACAG	ACCGGTATTG	GGAATTATAT	TGCTATTCCC	CATAGCAAGA	5940
STTCTGCTGT	GGAGAAGGCG	GGGGTAGTCA	TAGCTATAAA	TCACAATGAG	ATTCCTTGGG	6000
AGACCATTGA	TGGGAAAGGG	GTCAAAGTAA	TTGTACTCTT	TGCAGTTGGT	GATGATACAG	6060
AAGCTGCTAG	GGAGCATTTG	AAGACCTTAT	CACTCTTTGC	TCGAAAACTT	GGTAATGACG	6120
AAGTTGTTGC	CAAATTAGTT	CGGGCTCAGA	CATCTGATGA	TGTGATTGCA	GCTTTTTGTT	6180
<b>AATAAGAAAA</b>	AATTTTGGAG	GGTATCCGTA	TGAAAATTGT	TGGTGTTGCA	GCTTGTACTG	6240
PGGGAATTGC	CCACACTTAT	ATTGCACAGG	AAAAATTAGA	GAATGCCGCA	AAGGTAGCTG	6300

GAC	ATGTGAT	TCATGTTGAG	ACTCAGGGGA	CAATAGGGGT	AGAAAATGAA	TTGAGTCAAG	636
AGC	AGATTGA	TGCAGCGGAT	GTAGTTATTT	TAGCAGTTGA	TGTTAAGATT	TCTGGTATGG	642
AAC	GCTTTGA	GGGTAAAAAG	ATTATCAAGG	TTCCAACAGA	AGTGGCAGTC	AAATCTCCCA	648
AΤΑ	AACTGAT	TGCTAAAGCT	GTTGAGATTG	TTACGAAATA	ACTGAAAATA	TTTAAGGAGA	654
<b>AA</b>	TATATGT	TGAAACACTT	AAACTTAAAA	GGTCACTTAT	TGACAGCCAT	TTCCTATATG	660
\TT	CCAATTG	TTTGTGGTGC	AGGATTCTTA	GTTGCCATTG	GTTTAGCAAT	GGGGGTGGT	666
TT	CCTGACG	CTCTTGTAGC	AGGAAAATTC	ACTATCTGGG	ATGCTTTAGC	AACTATGGGT	672
GT	AAAGCCC	TTGGTCTCTT	GCCAGTTGTT	ATTGCTACAG	GTTTGTCTTA	CTCGATTGCT	6780
GT.	AAGCCAG	GGATTGCACC	AGGTTTTGTT	GTTGGTCTAA	TTGCCAATTC	TGTTGGTTCA	684
GG	TTTATCG	GTGGTATCTT	GGGAGGTTAT	ATAGCTGGTT	TCTTGGTTCA	AGCGATTATT	6900
\AA	AAGGTCA	AAGTACCAAA	CTGGATTAAA	GGTTTAATGC	CAACCTTGAT	TATTCCTTTT	6960
STA.	GCCTCTT	TGGTAAGTAG	TTTGATTATG	ATTTATATTA	TTGGAGCGCC	TATCGCAGCC	7020
TT.	ACCAACT	GGTTGACGAG	CTTATTACAA	AGCTTGGGAA	GTGCTTCAAA	TGGTTTGATG	7080
GG	GCAGTTA	TTGGAATTCT	CAGTGCTGTT	GACTTTGGTG	GCCCACTTAA	TAAAACAGTC	7140
TAT	GCGTTTG	TGTTGACTTT	ACAGGCTGAA	GGTGTGAAAG	AACCATTGAC	TGCTTTACAA	7200
TG	GTGAATA	CTGCTACACC	AGTTGGATTT	GGATTGGCCT	ATTTTATCGC	GAAATTACTC	726
AA	АААААТА	TCTATACTCA	AGAGGAAATC	GAAACATTGA	AATCGGCTGT	TCCTATGGGG	7320
TT	GTCAATA	TTGTTGAAGG	TGTAATTCCG	ATTGTTATGA	ATAACTTGGT	TCCAGGTCTC	7380
TT	GCAACAG	GTATCGGTGG	TGCTGTTGGT	GGTGCTGTTT	CTTTGACAAT	GGGTGCTGAT	7440
'CT	GCTGTGC	CATTTGGTGG	AGTGCTTATG	TTACCAACCA	TGACTCGTCC	AGTAGCTGGT	7500
TT	TGTGCCT	TGTTAGCTAA	CATTGTAGTC	ACAGGACTTG	TCTACGCGAT	TTTGAAAAA	7560
CA	ATAAAAC	ATGCAGAACC	AGTTATGACT	GTTGAAGAAG	AGATTGATTT	GTCAGATATT	7620
AA	ATTTTGT	AAGAGGGTAA	CGATGTCAAG	AATTGAATTT	TCACCATCTT	TGATGACCAT	7680
GA'	TTTGGAC	AAATTCAAAG	AGCAGATTAC	TTTTTTGAAT	GATAAAGTAG	CATCTTATCA	7740
'AT	CGATATT	ATGGATGGCC	ATTTTGTTCC	CAATATTACC	TTGTCTCCTT	GGTTCATTCA	7800
GA	AGTTCAA	AAAATTAGTG	ACACACCTTT	ATCAGTTCAT	CTGATGGTCA	CAGACCCAAC	7860
TT	TTGGGTA	GATCAAGTTC	TCGATTTACA	ATGTGAGTAT	ATTTGTATTC	ATGCTGAAGT	7920
CT	GAATGGT	CTTGCTTTTC	GTTTGATTGA	TAAAATTCAT	GATGCAGGTC	TAAAGGCTGG	7980
'GT'	TGTCCTT	AATCCTGAAA	CACCTGTTTC	TACAATCTTT	CCCTACATTG	ATTTACTTGA	8040

		,	450			
CAAAGCAACT	ATTATGACTG	TAGATCCAGG	TTTTGCAGGA	CAACGCTTTT	TGGAGTCTAC	8100
CTTGTATAAA	ATCCAAGAAC	TCCGTCAGCT	TAGAGTTCAG	AATGGTTATC	ACTACATCAT	8160
TGAGATGGAT	GGTTCTTCGA	GTCGTAAGAC	TTTCAAACAA	ATTGATGTGG	CAGGACCAGA	8220
TATTTATGTT	ATAGGTCGCA	GTGGATTATT	TGGTTTGGAT	GACGATATTG	CCAAAGCCTG	8280
GGATATCTGT	TCTAGAGATT	ACGAAGAAAT	GACCGGAAAA	ACAATGCCAA	TCAAATAATG	8340
GTTTGAGAAG	AAATTTATTA	GTTAGGAGGA	ATATATGTCA	CTACAATCAG	TTAACGCCAT	8400
TCGTTTTCTT	GGCGTAGATG	CTATTAACAA	ATCTAATTCT	GGTCACCCGG	GAATTGTCAT	8460
GGGTGCTGCG	CCAATGGCTT	ATAGCCTATT	TACAAAGCAC	CTTAGAATTA	CACCTGAGCA	8520
GCCAAACTGG	ATTAACCGAG	ATCGCTTTAT	CTTGTCTGCG	GGTCATGGAT	CAATGCTACT	8580
GTATGCTCTC	TTGCATTTAA	CAGGGTATAA	GGATGTATCC	ATGGACGAGA	TTAAAAATTT	8640
CCGGCAATGG	GGATCTAAGA	CACCTGGTCA	TCCTGAAGTG	ACGCATACGT	CTGGTGTGGA	8700
TGCGACATCT	GGTCCGCTTG	GTCAGGGGAT	TTCTACTGCC	GTTGGTTTCG	CCCAAGCAGA	8760
GCGTTTTTTA	GCTGCTAAGT	ACAACAAAGA	TGGTTTCCCT	ATTTTTGACC	ATTATACTTA	8820
TGTTATCGCT	GGAGACGGTG	ACTTCATGGA	AGGAGTGTCT	GCGGAGGCGG	CTTCTTATGC	8880
AGGTCATCAA	GCTTTAGATA	AGCTTATCGT	CCTCTACGAC	TCCAACGACA	TCTGCTTGGA	8940
TGGTGAGACC	AAAGATACTT	TCTCTGAAAA	TGTTCGCGTC	CGTTACGATG	CTTATGGTTG	9000
GCATACAGTT	CTGGTAGAAG	ATGGAACAGA	TTTAGCAGCA	ATTTCTACAG	CAATTGAGAC	9060
GGCCAAGTTT	TCTGGTAAAC	CGAGTTTGAT	TGAAGTGAAA	ACGGTAATTG	GTTACGGCTC	9120
ACCCAATAAA	AGTGGTACAA	ATGCTGTTCA	TGGTGCACCA	CTAGGAGCAG	AAGAAACAGG	9180
AGCAACTCGT	AAGTTTTTGG	GATGGGATTA	CGATCCATTT	GAAGTACCAG	AGGAAGTATA	9240
TTCTGATTTC	AAGACAAATG	TAGCGGATCG	TGGTCAGGAG	GCATACGATG	CTTGGGCTAG	9300
TTTGGTGTCT	GATTACAAGG	TTGCTTATCC	CGAAGTTGCT	AGTGAGATTG	ACGCTATTGT	9360
AGCTGGAAAA	TCCCCTGTAA	CCATTACTGA	AAAAGACTTC	CCTGTCTATG	AGAATGGCTT	9420
CTCTCAAGCA	ACTCGTAATT	CGTCCCAAGA	TGCTATTAAT	ACAGCAGCAG	TTTTACCAAC	9480
CTTCTTAGGT	GGATCGGCAG	ACTTAGCTCA	CTCTAACATG	ACCTACATCA	AGGCAGATGG	9540
CTTACAAGAT	AAATATAATC	CATTAAACCG	CAATATTCAG	TTTGGGGTAC	GTGAATTTGC	9600
CATGGGAACA	ATCCTCAATG	GAATGGCTCT	TCATGGTGGT	TTACGAGTTT	ATGGCGGAAC	9660
CTTCTTTGTT	TTCTCTGACT	ACGTCAAAGC	TGCTATTCGG	CTATCAGCCA	TTCAGGAGTT	9720
GCCTGTAACT	TATGTCTTTA	CCCATGATTC	AATTGCCGTT	GGTGAAGATG	GTCCAACTCA	9780
<b>IGAACCAGTT</b>	GAACATTTGG	CAGGTTTACG	CTCAATGCCA	AACTTGACTG	TTATCCGTCC	9840

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AGCGGATGCC	CGTGAAACTC	AAGCGGCTTG	GCATCATGCC	TTGACCAGTA	CCACCACTCC	9900
AACTGTCATT	GTCTTAACCC	GTCAAAACTT	GGTAGTTGAA	GAAGGGACAG	ACTTTGGTAA	9960
GGTCGCTAAA	GGAGCCTACG	TCGTGTATGA	TACCCCGGGA	TTTGATACTA	TTATCATTGC	10020
TACAGGATCT	GAGGTCAATC	TAGCTATCAA	AGCTGCTAAG	GAATTGGTTT	TACAAGGTGG	10080
TAAAGTACGT	GTGGTATCTA	TGCCCTCAAC	CGAACTATTT	GATGCTCAAG	ATGCTACCTA	10140
CAAGGAAGAC	ATTTTACCAT	CTAAGACTCG	TCGTCGTGTG	GCCATTGAAA	TGGCAGCGAC	10200
CCAAAGTTGG	TACAAGTATG	TTGGTTTGGA	TGGCGCGGTC	ATCGGTATTG	ACATCTTCGG	10260
TGCGTCTGCC	CCAGCTCAGA	CTGTGATTGA	TAATTATGGA	TTTACGGTAG	AGAATATCGT	10320
TGCTCAAGTT	AAGTCCCTAT	AGAAACCAAT	TACAATGAAG	ATACAGCTGT	TGTCAGACTA	10380
GCAGATGTAG	TGATAGACAC	TAATCAGATG	ATTGGTTATT	TAAAAACTGT	AATGAAAATG	10440
ATTTAATTAAT	TCTACGAAAG	TTATAGTAGA	TAGTATACAC	AATAGAGTAT	ACCCTGAAAC	10500
GGTTGCGAAG	TACGCTAATC	ACTTTGCTAC	TGATCTAGAT	AGTTTCTTTA	ATCAATAAAC	10560
ACAGCATCCA	CAGATTGACT	TAGGATATTG	TAAGTTTTTT	GAAAGCTAGA	GAGAAGGTCT	10620
СТААААТТАА	AAAACGCATA	GTATAGGATG	TTGAAATGAT	GAACTGCACC	CCAAAAGTTA	10680
GACAGAAAAA	AATCTAACTT	TIGGGGTGTT	TTTATTATGA	AATTAACTTA	TGATGATAAA	10740
GTTCAGTTCT	ATGAACTTAG	AAAACAAGGA	TATATCTTAG	AGAAGCTTTC	AAATAAATTT	10800
GGGATAAATA	ATTCTAATCT	TAGGTACATG	ATTAAATTGA	TTGATCGTTA	CGGAATAGAG	10860
TTCGTCAAAA	AAGGGAAAAA	TCGTTACTAT	TCTCCTGATT	TAAAACAAGA	AATGATTCAT	10920
AAAGTCTGAC	ATGAAGGCTG	GACTAAAGAT	AGAGTTTCTC	TTGAATACGG	TCTCCCAAGT	10980
CGTACGATAC	TTCTTAACTG	GCTAGCACAA	TACAGGAAAA	ACGGGTATAC	TATTGTTGAG	11040
AAAACAAAAG	GGAGAGTACC	TGAGAGCGGA	GAATGCCATC	CTAAAAAAGT	TAAGAGAACT	11100
CCGATTGAAG	GAGGAAAAAG	AGAAATAAGA	AAGACAGAAA	TTGTTCAAGA	ATTAATGACT	11160
GAGTTTTCGT	TAGATCTTCT	TCTAAAAGCC	ATTAAACTAG	CTCGTTGGAC	СТАСТАСТАТ	11220
CACTTGAAAC	AGCTAGATAA	ACCAGATAAG	GACCAAGAGC	TTAAAGCTGA	AATTCAATCC	11280
ATCTTTATCG	AACACAAGGG	AGATTATGCT	TATCGCCGGG	TTCATTTAGA	ACTAAGAAAT	11340
CGTGCTTATC	TGGTAAATCA	TAAAAGAGTT	CAAGGCTTGA	TGAAAGTACT	CAATTTACAA	11400
GCTAGAATGC	GACAGnAACG	AAAATATTCT	TCTCATAAAG	GAG		11443

### (2) INFORMATION FOR SEQ ID NO: 50:

<sup>(</sup>i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 5338 base pairs

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- (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 50:

60	CAGCCAAGCA	ATGAATGAGG	AACTGGCTCC	AAATCGTCGA	TATATTATCA	CCAATTACAT
120	ATGAAATGGG	GATTTGGAAA	TGCAGTGCGA	GTCTCTCCAA	ACTCAGCCAA	ACTCTTTATC
180	GCATGGAGTT	ACCCGTGATG	AATCACCTTG	ATCCCAAGGG	TTTATCCGCA	CATTGAGATC
240	<b>GCTATAAAA</b>	CTGGAGGAAC	GACCCAGCTT	TTGTCGAGCA	GCCCGTCAGG	TCTCTCTTAT
300	TTGTGGTCAA	CACTATGCCT	TTCGTCTCAA	TCTTTAGCGT	CACCGCGAAC	TCCTGTCGCC
360	TCCTTCGTGA	TACGAACTCT	TATGGAGAAA	AGAAAAGCGA	TCTTTGCTCA	TGCCTTTGTC
420	TCGGGGTCCT	CGCAGTGAGG	CAAGAACTTC	TCGACGACGT	TGGGAGATTA	AACTCGGACT
480	ATCACCTGCT	CTGGATGACA	AACCAAGATG	GTGATGTTTT	AGTTACAACC	CTTCTTAAAC
540	ACCCTCTGGC	AGCAAGACCA	TATCTTTGTC	CGCAACCGCA	CTCTTCACAG	AGCCCACCAT
600	GCTATGACCA	CCTTACCTCA	GGAGAATTTC	TGTCTGATTT	AAGGTGAAAC	AAAGAAAGAC
660	ACCACAAGAA	TCTCAAGAAC	AGAGATTCTT	ACTTTTCAGA	AACTCCTTCT	AGGGACGCAC
720	TGGATGGTTA	TTGATTGGTT	CTTTAATCTC	GTGCCACCCT	GTCAGTGACC	ATCCATTGTG
780	TTTCTATCCC	GACAATATCG	CCTAAACGGA	TGAACAGCAA	ACAGGGATTT	TACCATTGCG
840	CCAGCCTATC	CATGAGAAAA	CTATATCCAG	TCGAGCTGGT	GATGACCCGA	ACTGGATATT
900	ATAGTTGAGA	GTTCAGTTTG	CCTAGAAGAA	TAGACTATCT	GAACGCTTTA	TAAGATGGGC
960	ТТТАСТТАТА	ATTGGTTCTT	CAACCTGCAC	AGGCTAGCAA	ACCAATATGT	AATGATAAGA
1020	AAAACTTATG	AAGAGAGTAT	TAGCTTGGGA	ACTTATCAGC	TCCCCTGCCA	ATTAAAAGTT
1080	TAATCTTGAC	ттттттсста	TTCTCGTTTG	GGAGATTGAG	AACAAAATCG	GGCTAGGTTC
1140	TAAGATAAGT	TCAACCGATT	CAGGAAGCGA	CTGGTTCTAG	GCCACTGCAT	AATCTTTTTA
1200	TGACTGTTGT	GGTCCTGGAT	TGTACGGATT	CGAAAAATCC	TCGGCTTGGT	TCCATCTGGG
1260	CAATAGCCGC	TTTGAAAAAC	TCGCAGAGCA	TAAGTTCGAG	CCATAGGGCA	CACATAGACT
1320	CCATGCTGAC	ATTAGACCTG	GCCAGTAGCT	GACTAGACTT	GCTGAGTAAA	AAACTTGGTC
1380	GACGAGACAG	GCCGCAAGGT	CTTCATACGA	TGCTGCTTTC	ATATGCCCTT	GATGTTGATG
1440	CAGCAATCTG	ATATCTTTAT	CATCTGGTGA	TGACCTCAAA	GCAAAGGTAT	ATTCATCAGG
1500	TCTTGCCATA	AAGACATCAA	GTTGTTAATC	CGTAACCAGC	TCAAAAATCC	GTCAAATCCC
1560	TATCAATTTC	TCGTCGGTAA	TAGGGCTGAA	CCAGAGCTTC	AGATCAGTTA	GCGGAGATAA

AATCAATTCT	GCATGGGAAT	AATTTCCGTA	GAGTTGGGCT	AATTTTTCCT	TATTTCTACC	1620
AAGCAAGATG	AGTTGGTCAT	TGGGCAGGAG	TTTGACCATT	TCTTGAGCTA	GACCACCGCT	1680
AGCTCCGGTA	ATGAGAATAG	TAGGCATACT	TATCCTTTCT	GTGACTGCTA	GATTTCCACT	1740
TCTTCCAAGT	CTTTGACCAC	ATGGACATTT	TCAAAAATTG	TGGCAGCGTC	TTTCTTGAGT	1800
TTGCTAATAT	CTTTTGAGAG	GAAACGGGCA	CTGATATGGT	TGAGTAGGAG	GCGTTTGGCA	1860
CCTGCTTCTA	CCGCTACTTG	TGCAGCTTGC	ATATTAGTTG	AGTGACCATG	GTTACGAGCA	1920
АТТТТТТСАТ	CACCCTTGCC	ATAAGTGGAC	TCATGAACTA	GGACATCTGC	ATTGACAGCC	1980
AGACGCACAC	TGGCACCCGT	TTTTCGAGTG	тстсстаааа	TAGTGATAAT	CTTACCTGGA	2040
CGTGGCGCTG	AGATATAGTC	TGCTGCCTTG	ATTTCAGTTC	CGTCTTCCAA	AACAAGATCC	2100
TGGCCGTTTT	TGATTTTACC	AAAAAGCGGG	CCGAACGGAA	CACCAGCAGC	CTTGAGTTTT	2160
TCAGCATCCA	GCGTCCCTTC	TAGATCCTTT	TGCATGACAC	GATAGCCAAC	ACAGAAAATA	2220
GTGTGGTCCA	GCTCCTCTGC	ATACACAGTG	AATTTATCGG	TTTCAAGAAT	TTTACCCAGA	2280
GAATCTTGGT	CAAACTCATG	GAAATGAATG	CGGTAGGGCA	GACGAGAACC	TGACACACGA	2340
AGGCTGGTTA	AGACAAATGA	CTTGATTCCT	TGAGGTCCGT	AGATTTCCAA	ATCTGTCTGC	2400
TCTTCATTGG	CCTGAAAGGC	ACGGCTAGAA	AGGAAACCTG	GCAAACCAAA	AATGTGGTCT	2460
CCATGCAGAT	GGGTAATAAA	GATTTTGCTG	ACCTTACGTG	GTCGAATTGT	GGTTTCCAGA	2520
ATGCGATTTT	GCGTACCTTC	TCCACAGTCA	AAGAGCCAAA	CTTCGTTAAT	CTCATCCAAA	2580
AGTTTCAGGG	CGAGACTTGA	AACGTTGCGG	GCTTTAGAGG	GCTGACCAGC	CCCCGTTCCT	2640
AAAAATTGAA	TATCCATTCG	ATACTTTCTA	ATTAATCAAT	ATATAACATG	GCTGTGCGGT	2700
TTTCCGATCG	GAAATAGCGT	TTGCCAGAAA	AAGCAGCAGC	TTCTTGCAAT	AAATCCTCTT	2760
GGCTGTAGCC	TTTGAGACGT	TTTCGACCAT	CAGCCAATCT	TTCCAAATCA	GTCAAAGCTG	2820
TGAGACTTTC	TAGGCTGATA	ACTTCCTCGT	CCTCGACAGG	CTTCATGTAA	ATCTTACCAG	2880
ACTCTTCAAA	GACTAATTGA	TGGGGGAAAA	TTTGCGCAAT	TTCAAAGAGC	AAGTCATCCG	2940
AGATTTTCTC	CTCATTTTCA	AAGAAAATCC	GACCAAGGCC	GTCACTCTCA	TAACAAAAAC	3000
CAAAGGATTT	ACCAGACAGA	TTAAGCCGAA	TAAAAGGCTT	ATTTTCTAGG	GTGAAACTTG	3060
GCTCAGTATT	GTAAAGATTC	AGTTCCTGAC	TGAGTTCTGC	AAAATAATCC	GTCGCAGCCT	3120
GAGGACTCTT	TTTCTGATAG	AGTTCTGCAA	AGTAGGCATT	AACAACACTT	GGCGGAGGTG	3180
TAATAAGTGT	TAACTGCTCC	TGATCTGTTT	TACCAGCTAG	AAGCTGATCC	AGATAGACCT	3240
TGTCCAGACT	TGTATAACCT	CCATACTTTA	GAGCCAAAGT	ТТТААТАТСА	GTCATAAAAT	3300

TCTTCTAACC	TCCATTTATT	TTTCTCGGAA	ATGTAGCCTG	TAATCACTTC	GCCGTCTTCC	3360
TGATAATCAC	GTTCTTCCAG	AATTGCAACA	СТСТСТАААТ	CATGAATCTT	GTAGGACTTT	3420
GAAAAAGGCA	CTCGCAGGGT	AAATGCTTCA	AAAATTTCCT	TAATCTTATC	TAGCAATAAT	3480
GCTTGCAAGT	TTTCACGACT	GTCCTCAGAC	TTGGCAGAAA	TGAGGGTATA	TGGCGTTTGG	3540
GTAGGCGTGA	AATCCTCCAC	CAAATCCGCT	TTATTATAAA	GCGTCAAGTG	AGGAATATCT	3600
TCCATGTCCA	GGTCTTTCAT	GATGGAGAGA	ACCGTTTTTT	CATGCTCCTC	GTGGTAAGGA	3660
TTGCTAGCAT	CGATAACATG	AACCAGAAGG	TCCACATGCT	TGCTTTCTTC	CAAGGTTGAC	3720
TTGAAACTGG	ACACCAACTC	TGTCGGCAAA	TCTTGGATAA	AGCCAACGGT	ATCTGTCAAA	3780
GTTACTTGGA	GATTGCCTCC	CAGATGAATA	CTCTTGGTTG	TCGCATCCAG	AGTCGCAAAG	3840
AGCTCATCTG	CTTCATACTG	GGTCTTACTG	GTCAAGATGT	TCATGATAGT	TGATTTCCCA	3900
GCATTAGTAT	AACCAATCAA	ACCAATCTTA	AAAGTGCTAG	ACTCCAAACG	TTTTTCTCTG	3960
ACAGTCGCAC	GATTTTTCTC	AACCACCTTG	AGCTGGCGCT	CGATATCCGT	GATTTGATTG	4020
CGAACGCTAC	GACGGTTCAG	CTCCAGCTGG	CTTTCACCAG	GACCACGGGA	ACCAATTCCC	4080
CCTgCCTGAC	GGCTGAGCAT	AATCCCCTGA	CCAACCAAGC	GAGGCAAAAG	GTATTTGAGT	4140
TGGGCTAGGT	GGACTTGGAG	CTTCCCTTCA	TGGCTTCGAG	CCCGCATGGC	AAAGATATCC	4200
AAAATCAACT	GCATACGGTC	AATGACCTTA	ACACCGAGAA	CTTCCTCTAG	ATTGACATTC	4260
TGCCTTGGGG	TCAGACGATT	GTTGACGATG	ACAGTAGTGA	TTTCTTCTGC	ATCCACCATA	4320
AGCGCAATCT	CTTCCAACTT	ACCAGAGCCG	ACGAAGGTCT	TGGAATCATA	TTTTTCACGT	4380
TTTTGTCTGT	AGCTATCTAC	AACGACTGCC	CCTGCCGTTT	TCGCTAAACT	AGCCAATTCT	4440
TCCATGGAGA	GGTCAAAACT	GTCCATACCC	TGCAATTCCA	CACCAATCAG	CAGGACTCGC	4500
TCCTCTTTTT	TCTCCGTTTC	AATCATCTAA	AAACTCCTCT	ATCTGGCTTA	AAATGCGGTC	4560
TTGTACACCA	GATTCTCCAA	TCTGATAAAA	GGTGACCTGC	ATGCGATTAC	GGAACCAGGT	4620
CAGCTGACGC	TTGGCAAAAC	GACGAGTCGC	CTGTTTAAGA	CTCTCACTAG	CTTCCTCCAA	4680
GGTCTGCTCT	CCACGGAAAT	AAGGAAAGAG	TTCCTTATAG	CCAATTCCTT	TAGCAGCCTG	4740
TACATTAGGG	GAATGGTCAA	ACAGCCACTT	GGCCTCATCC	AAAAGCCCAG	CCTCAAACAT	4800
CAAATCCACT	CGGTGGTTGA	TACGCTCATA	AAGTTGACTA	CGTTCATCAT	CCAAGCAGAT	4860
AATCAGCGGT	TCATACAAGG	TCTCTTGATT	TTCCAAATCC	TGACCAAAAT	GGGCAATTTC	4920
TAAGGCACGC	ATAGCACGAC	GACGATTAAA	CTGGGGAATC	TCAAGGCCTG	CTTGATCCAC	4980
CAAATGGGCT	AATTCCTCAT	CTGAATATGG	CTCCAAACTA	GCTCGATAAG	СТААААТСТС	5040
CTCATGAGGA	GTCTCCCCAC	CTAGGTGGTA	ACCTTCTAGC	AAGCTCTGGA	TATAAAGTCC	5100

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AGTCCCACCG	GCGATAATGG	CTAGCTTGCC	ACGGTTGTGA	ATACCCTCAA	TAGTCATCTT	5160	
AGCTTCTGAA	ACAAAATCAA	AAGCCGAGTA	AGACTCGGTT	ATCTCTCTAA	CATCGATTAA	5220	
ATGATGAGGA	ACAGCTGCCT	GCTCTTCTGG	ACTAGCCTTG	GCCGTCCCAA	TATCAAGTCC	5280	
TCGATAGACT	TGCTGGCTAT	CTCCACTAAC	CACTTCGCCA	TTAAAACGCT	TTGCGGG	5338	
(2) INFORMATION FOR SEQ ID NO: 51:							

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 19446 base pairs

(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 51:

CGGAAACCCA	TCTAGTCTCC	ATCGTTTGGG	AGACCAAGCA	ACACGAATCT	TAGATGCTTC	60
TCGCCAACAG	ATTGCAGATT	TAATCGGTAA	GAAAAGCGAT	GAAATCTTCT	TTACCTCGGG	120
TGGAACAGAA	GGGGATAACT	GGCTTATCAA	GGGTGTGGCC	TTTGAAAAAG	CTCAGTTTGG	180
CAAGCACATC	ATTGTTTCAG	CCATTGAACA	TCCAGCAGTC	AAAGAGTCAG	CCCTCTGGTT	240
GAAAAGTCAA	GGATTTGAAG	TGGATTTTGC	TCCAGTTGAT	AAGAAAGGCT	TGGTCGATGT	300
TGAGGCGTTA	CAGGTTTGAT	ACGGCATGAT	ACAATCCTCG	TTTCCATCAT	GGCTGTGAAC	360
AATGAAATCG	GCTCTATCCA	ACCTATTGAG	GCTATTTCAG	AATTCTTGGC	AGACAAGCCG	420
ACTATTTCCT	TCCACGTTGA	TGCGGTTCAG	GCGCTTGCCA	AAATTCCGAC	TGAAAAGTAT	480
CTGACAGAAC	GGGTGGATTG	CGCGACTTTC	TCTAGTCACA	AGTTCCACGG	GGTTCGAGGT	540
GTTGGCTTTG	TCTATATCAA	ATCTGGCAAG	AAGATTACAC	CTCTTCTTAC	AGGTGGTGGC	600
CAGGAGCGAG	ATTATCGTTC	GACAACTGAA	AATGTGGCAG	GGATTGCAGC	GACAGCCAAG	660
GCCCTCCGTT	TGTCTATGGA	AAAGCTAGAT	ATCTTTAGGA	GCAAGACTGG	GCAGATGAAG	720
GCAGTGATTC	GCCAAGCTCT	TCTGAACTAT	CCGGATATTT	TTGTCTTTTC	AGATGAGGAA	780
AACTTTGCAC	CTCATATTCT	GACTTTTGGA	ATCAAAGGTG	TTCGAGGTGA	AGTCATCGTT	840
CACGCCTTTG	AAGACTATGA	TATTTTCATC	TCAACAACCT	CAGCTTGTTC	ATCTAAGGCA	900
GGAAAACCAG	CCGGTACCTT	GATTGCCATG	GGAGTGGACA	AAGATAAGGC	CAAGTCAGCT	960
GTGCGTCTTA	GCCTAGACTT	GGAAAATGAT	ATGAGTCAGG	TCGAGCAGTT	TTTGACCAAG	1020
TTAAAATTGA	TTTACAATCA	AACTAGAAAA	GTAAGATAGG	AGCATTCATG	CAGTATTCAG	1080
AAATTATGAT	TCGCTACGGA	GAGTTGTCAA	CCAAGGGTAA	AAACCGTATG	CGTTTCATCA	1140

			456			
ATAAACTTCG	TAATAATATT	TCGGACGTTT	TGTCTATCTA	TACCCAAGTT	AAGGTAACAG	1200
CAGATCGCGA	CCGTGCCCAC	GCTTACCTCA	ATGGAGCTGA	TTACACAGCA	GTTGCAGAAT	1260
CTCTCAAACA	AGTTTTTGGA	ATTCAAAACT	TTTCTCCTGT	TTATAAGGTT	GAAAAATCTG	1320
TAGAAGTTTT	GAAGTCTTCT	GTCCAAGAGA	TTATGCGGGA	CATCTACAAG	GAAGGTATGA	1380
CCTTTAAGAT	TTCTAGCAAG	CGTAGCGACC	ACAACTTTGA	ACTTGATAGT	CGTGAACTCA	1440
ACCAAACACT	TGGAGGGGCT	GTATTCGAAG	CCATTCCAAA	TGTGCAAGTT	CAAATGAAAA	1500
GTCCTGACAT	CAATCTTCAG	GTGGAGATTC	GTGAAGAAGC	AGCCTATCTT	TCTTATGAAA	1560
CCATTCGTGG	GGCTGGTGGT	TTGCCAGTTG	GAACTTCAGG	TAAAGGGATG	CTCATGTTGT	1620
CAGGAGGGAT	TGACTCACCT	GTAGCAGGTT	ATCTTGCTCT	TAAGCGTGGG	GTGGATATCG	1680
AGGCAGTTCA	CTTTGCTAGT	CCACCATATA	CTAGTCCTGG	TGCCCTCAAG	AAAGCGCAGG	1740
ACTTGACCCG	TAAATTGACC	AAGTTTGGCG	GAAATATCCA	GTTTATAGAG	GTGCCTTTCA	1800
CAGAGATTCA	AGAGGAAATC	AAAGCCAAAG	CGCCAGAAGC	TTATTTGATG	ACTCTAACTC	1860
GTCGCTTTAT	GATGCGGATT	ACTGACCGTA	TTCGTGAGGT	ACGAAATGGT	TTGGTTATCA	1920
TCAATGGGGA	AAGTCTAGGT	CAAGTAGCCA	GCCAAACCCT	TGAAAGTATG	AAGGCTATCA	1980
ATGCTGTTAC	CAACACTCCC	ATCATTCGTC	CTGTGGTTAC	CATGGACAAG	TTGGAAATCA	2040
TTGACATCGC	CCAGGAAATC	GATACCTTTG	ACATTTCAAT	CCAACCGTTT	GAAGACTGTT	2100
GTACCATTTT	TGCACCAGAT	CGTCCAAAAA	CAAATCCTAA	AATTAAGAAT	GCGGAGCAGT	2160
ACGAAGCGCG	TATGGATGTT	GAAGGCTTGG	TTGAGCGAGC	AGTGGCTGGA	ATCATGATTA	2220
CTGAAATCAC	ACCTCAAGCC	GAAAAAGATG	AAGTTGATGA	CTTGATTGAC	AATCTGCTCT	2280
AATTCAGAAA	ATCCAAAAGA	ATAGCGAAAA	TCAGTAAAAA	AAGTTAGTTT	ТТТСТСТААА	2340
AACAGGTAAA	AAACTAACTT	TTTTTATTT	TATGATATAA	TGATATAAAA	TTTTGAATAT	2400
AGAGAGTTTT	CTGACAATGA	ATCAATCCTA	CTTTTATCTA	AAAATGAAAG	AACACAAACT	2460
CAAGGTTCCT	TATACAGGTA	AGGAGCGCCG	TGTACGTATT	CTTCTTCCTA	AAGATTATGA	2520
GAAAGATACA	GACCGTTCCT	ATCCTGTTGT	ATACTTTCAT	GACGGGCAAA	ATGTTTTTAA	2580
TAGCAAAGAG	TCTTTCATTG	GACATTCATG	GAAGATTATC	CCAGCTATCA	AACGAAATCC	2640
GGATATCAGT	CGCATGATTG	TCGTTGCTAT	TGACAATGAT	GGTATGGGGC	GGATGAATGA	2700
GTATGCGGCT	TGGAAGTTCC	AAGAATCTCC	TATCCCAGGG	CAGCAGTTTG	GTGGTAAGGG	2760
TGTGGAGTAT	GCTGAGTTTG	TCATGGAGGT	GGTCAAGCCT	TTTATCGATG	AGACCTATCG	2820
TACAAAAGCA	GACTGCCAGC	ATACGGCTAT	GATTGGTTCC	TCACTAGGAG	GCAATATTAC	2880
CCAGTTTATC	GGTTTGGAAT	ACCAAGACCA	AATTGGTTGC	TTGGGCGTTT	TTTCATCTGC	2940

AAACTGGCTC	CACCAAGAAG	CCTTTAACCG	CTATTTCGAG	TGCCAGAAAC	TATCGCCTGA	3000
CCAGCGCATC	TTCATCTATG	TAGGAACAGA	AGAAGCAGAT	GATACAGACA	AGACCTTGAT	3060
GGATGGCAAT	ATCAAACAAG	CCTATATCGA	CTCGTCGCTT	TGCTATTACC	ATGATTTGAT	3120
AGCAGGGGGA	GTACATCTGG	ATAATCTTGT	GCTAAAAGTT	CAGTCTGGTG	CCATCCATAG	3180
TGAAATCCCT	TGGTCAGAAA	ATCTACCAGA	TTGTCTGAGA	TTTTTTGCAG	AAAAATGGTA	3240
agttaagaaa	GGAAAAAACG	AAATGCATAT	TGAACATCTT	AGCCACTGGA	GTGGTCATCT	3300
TAACCGTGAA	ATGTACCTTA	ACCGTTATGG	ACATGGTGGG	ATTCCAGTTG	TGGTCTTTGC	3360
TTCATCAGGT	GGTAGTCACA	ACGAATACTA	TGATTTTGGC	ATGATTGATG	CCTGTGCTTC	3420
CTTTATCGAG	GAAGGCCTTG	TCCAGTTCTT	TACCCTATCT	AGTTTGGATA	GTGAGAGCTG	3480
GTTGGCTACT	TGGAAAAATG	CTCATGACCA	AGCGGAAATG	CACCGTGCCT	ACGAACGTTA	3540
TGTGATTGAG	GAGGCCATTC	TTTTATCAAG	CACAAGACAG	GTTGGTTTGA	TGGCATGATG	3600
ACGACAGGTT	GCTCTATGGG	AGCCTATCAT	GCACTCAATT	TCTTCCTCCA	GCATCCAGAT	3660
GTCTTTACCA	AAGTGATTGC	TCTCAGTGGT	GTTTACGACG	CACGTTTCTT	TGTCGGTGAT	3720
TACTACAACG	ATGATGCTAT	TTACCAAAAC	TCGCCAGTAG	ATTATATTTG	GAACCAAAAC	3780
GACGGCTGGT	TTATTGACCG	TTACCGTCAG	GCAGAGATTG	TGCTGTGTAC	GGGGCTTGGA	3840
GCCTGGGAAC	AAGATGGTTT	GCCATCCTTT	TACAAGCTCA	AAGAAGCCTT	TGACAAGAAA	3900
CAAATTCCAG	CCTGGTTTGC	TGAATGGGGA	CATGATGTCG	CCCATGACTG	GGAATGGTGG	3960
CGTAAACAAA	TGCCTTATTT	CCTCGGTAAT	CTCTATTTAT	AAAAGGAGTT	ACCTATGAAT	4020
TACCTTGTTA	TTTCTCCCTA	CTATCCACAA	AACTTTCAAC	AGTTTACCAT	CGAACTAGCT	4080
AATAAAGGCA	TCACAGTCTT	GGGAATTGGT	CAAGAGTCTT	ACGAGCAATT	GGATGAGCCC	4140
TTGCGCAATA	GCTTGACCGA	GTATTTTCGT	GTTGATAATC	TTGAGAACAT	AGATGAAGTC	4200
AAACGTGCAG	TTGCTTTTCT	CTTTTATAAA	CATGGTCCAA	TTGGCCGCAT	CGAGTCTCAC	4260
AATGAATACT	GGCTTGAGCT	AGACGCAACA	CTCAGAGAAC	AATTCAATGT	TTTTGGTGCC	4320
AAACCAGAGG	ATCTCAAAAA	GACGAAATAT	AAGTCTGAAA	TGAAGAAACT	тттсаааааа .	4380
GCAGGTGTTC	CTGTGGTACC	TGGAGCTGTT	ATCAAGACGG	AAGCAGATGT	TGATCAAGCA	4440
GTGAAAGAAA	TCGGTCTTCC	AATGATTGCC	AAACCTGATA	ATGGAGTGGG	AGCAGCCGCA	4500
ACCTTTAAAC	TTGAGACAGA	AGACGATATC	AATCACTTCA	AGCAAGAATG	GGACCATTCA	4560
ACCCTTTATT	TCTTTGAAAA	ATTTGTCACT	TCCAGCGAAA	TCTGTACCTT	TGACGGGCTC	4620
GTGGACAAGG	ATGGAAAGAT	TGTCTTCTCA	ACAACCTTTG	ACTACGCCTA	TACACCGCTT	4680

GACCTCATGA TTTATAAGAT GGACAATTCT TATTATGTGC TCAAGGATAT GGATCCTAAA 4740 CTGCGCAAGT ATGGGGAAGC AATTGTCAAA GAATTTGGTA TGAAAGAACG GTTTTTCCAT 4800 ATTGAGTTCT TCCGTGAGGG GGACGATTAT ATTACCATCG AGTACAATAA CCGCCCTGCA 4860 GGTGGTTTTA CCATTGATGT TTATAACTTT GCTCATTCCT TGGACCTTTA TCGTGGCTAT 4920 GCAGCTATTG TCGCAGGAGA GGAGTTCCCG GCGTCAGACT TTGAAACTCA GTATTGTTTG 4980 GCTACTTCTC GCCGTGCAAA TGCTCACTAT GTTTATTCAG AAGAGGATTT GCTTGCCAAA 5040 TATAGCCAGC AGTTCAAGGT TAAAAAAGTC ATGCCAGCTG CCTTCGCGGA ACTTCAAGGA 5100 GATTACCTGT ATATGCTGAC CACTCCGAGT CGACAAGAAA TGGAGCAGAT GATTGCAGAT 5160 TTCGGACAAC GTCAAGAATA AGAACTATCG GATTAAGGAA ATTAACTCCC TTAATCCTTT 5220 TGTTTTGTCT GATAAAAAT AAGAGCATCC CAACAAGGTA GCTATCATAA AACTTGTTCG 5280 ATAACTATTT GAAGCAGGAT TAGGTGGTCA GAAATTAAAT TTTAATATTT CAATTGAGTC 5340 ATAGTATTGT GTTTGCGTAT CCTTAAATCA GCTAAAAGGA TCCATGACGA CACCTATACG 5400 ATATAGTTT CAAGATACCA AACAAGTCTA TTAATATTCA ATGAAAATCA AAGAGCAAAC 5460 TAGGAAGCTA GCCGCAGGTT TCTCAAAACA CTGTTTTGAG GTTGTGGATA GAACTGACAG 5520 AGTCAGTATC ATATACTACG GCAAGGTGAA GCTGACGTGG TTTGAAGAGA TTTTCGAAGA 5580 GTATAAAATA TTCAGGTGAC GCATAGATAT AGTTAATTGA AGCTTTGTTT GAAATCTGAT 5640 AAAATAATGA TATTACTAAG TTTTAAAAAC TAAAGAAAAG GGAAGATATG ATTACAGGCG 5700 AATTAAAAAA TAAAATCGAT CAGCTGTGGG AAATTCTTTG GACAGAAGGA AACGCAAATC 5760 CTTTAACAAA TATTGAACAG TTGACTTATC TCTTATTTAT GAAAGATTTG GATAGTGTCG 5820 AGCTTGGACG TGAAAGTGAT GCTGAATTTC TAGGGATTCC TTATGAGGGA GTTTTTCCAA 5880 AAGATAAACC TGAATACCGT TGGTCAACTT TTAAAAATAT AGGAGATGCT CAGGAAGTTT 5940 ATCGTTTAAT GACTCAGGAG ATTTTTCCGT TTATTAAAAA TCTCAAGGGG GATACAGATG 6000 ATACAGCCTT TTCACGATAT ATGCGAGAAG CTATTTTCA AATAAATAAA CCTGCTACGC 6060 TTCAAAAGGC AATTTCTATC TTAGATGTTT TTCCAACTAG GGGATTAGAT GTAGATTTTG 6120 ATAATGACAA ACAAAGTATT ACTGATATCG GAGATATCTA TGAATATCTG TTATCAAAAT 6180 TGTCGACCGC AGGTAAAAAT GGACAGTTCC GTACACCTCG TCACATCATC GATATGATGG 6240 TTGAGTTGAT GCAACCGACT ATCAAAGATA TCATCTCAGA TCCCGCTATG GGTTCTGCTG 6300 GCTTCTTAGT ATCTGCTAGC CGTTACTTAA AGCGTAAGAA AGATGAATGG GAAACCAATA 6360 CAGATAATAT CAATCATTTT CATAATCAGA TGTTTCATGG AAATGATACG GATACGACTA 6420

TGTTGAGACT TGGGGCGATG AACATGATGC TACATGGAGT AGAAAATCCA CAAATCAGTT

ACCTTGACTO	GCTGTCTCAA	GATAATGAAG	AAGCCGATAA	ATATACTTTG	CTTTTAGCAA	6540
ATCCTCCTTI	TAAGGGCTCA	CTTGACTACA	ATTCAACCTC	TAATGACCTT	CTTGCAACCG	6600
TAAAAACCA	AAAAACAGAA	TTACTCTTTC	TTTCTCTTTT	CTTGCGAACT	TTAAAACCAG	6660
STGGACGAG	AGCAGTTATC	GTACCTGATG	GTGTCCTTTT	TGGTTCGTCT	AAAGCTCATA	6720
AAGGAATTCC	TCAGGAAATT	GTAGAGAATC	ATAAGCTTGA	TGCTGTAATC	TCAATGCCTA	6780
STGGTGTGTT	CAAGCCTTAT	GCTGGAGTTT	CAACTGCCAT	TCTCATCTTT	ACAAAAACTG	6840
STAATGGTG(	TACTGACAAA	GTCTGGTTTT	ACGATATGAA	AGCGGATGGT	TTAAGTTTGG	6900
ATGATAAGCC	ACAACCGATT	AGCGACAATG	ATATTCCAGA	TATTATCGAA	CGCTTTCATC	6960
\TCTTGAAA#	AGAAGCAGAA	CGTCAGAGAA	CGGATCAATC	TTTCTTTGTT	CCAGTTGCTG	7020
AGATAAAGGA	AAATGATTAT	GATTTGTCTA	TCAATAAATA	TAAAGAGATT	GAGTATGAAA	7080
agttgagt?	TGAACCAACA	GAAGTCATAT	TAAAGAAAAT	CAATGATTTA	GAAAAAGAAA	7140
TCAAGCTGG	CTTGGCTGAA	TTGGAAAAAT	TACTCAAGTA	GGGAGGTGGC	TGTATGAAAA	7200
agtgaagtt	GGGGGAAGTC	ттатстстаа	AAAAAGGCAA	GAAAGCCACT	GTACTTGCTG	7260
<b>ACAAACAA</b>	TCTAAGCCAA	CGTTATATTC	aaatagatga	TTTAAGAAAT	AATAATAATT	7320
CAAAATTCAC	TGAAAGTTTA	AATATGACTG	AAGCACTCCC	AGATGATATT	CTGATAGCAT	7380
GGATGGAGG	TAATGCAGGA	ACAGTTGGTT	ATGGATTATC	GGGAGCTGTT	GGTAGTACAA	7440
TTACGGTCTT	AAAAAAGAAT	GAGCGATACA	AAGAAAAAAT	TATATCAGAT	TACTTGGGAG	7500
rctttttgg <i>i</i>	AAGTAAATCG	CAGTATTTAC	GAGATCATTC	AACAGGTGCA	ACAATTCCTC	7560
YTTAAACA?	GAATATATTA	CTTGATTTAC	AATTAGAATT	GCTAGGTATC	GAAGAACAAG	7620
AGAACATTA1	CTGTATTCTT	AATACGATTA	AAAGGCTTAT	TACTAAAAGA	AAATTTCAGT	7680
PAGATGAACT	AAACTTGCTC	GTCAAATCCC	GATTTAACGA	GATGTTTGGG	GAAAATAAAA	7740
OAAADTTTAT	CATTGATAAC	TTATTTGATA	TTATAGATGG	TGATAGGGGC	AAAAATTATC	7800
TAAATCAGA	1 TGAGTTGTTT	AGTGAGGAGT	ACTGTTTATT	TTTAAATACA	AAGAATGTTA	7860
TAAAAACGG	ATTTTCATTC	GATACAAAGC	AATTTATCAC	TAAAACAAAG	GATAAATTAC	7920
TCGAAAAGG	CAAACTTGAG	CGTTATGATA	TAGTCTTGAC	AACAAGAGGT	ACTGTTGGAA	7980
ATGTAGCGTA	CTACGATGAA	TTAATAAAAT	ATAAACATTT	ACGTATAAAT	TCAGGTATGG	8040
COATTATAA	TCCCAAGACA	ССАААТСТАА	ATCAGAAATT	TATTATCCAT	GTTTTAAGGA	8100
ATTAATAATT	TAGTCGAGTG	ATATCAGGAA	GTGCTCAGCC	TCAGTTACCA	ATTACAAAAT	8160
דמ ממממממי	י ארייזיינייניניניניני	CHCCCCCCVC	ሞ <b>ል</b> ርርርርጥርርል	AAATCACTTC	CCACACTTTC	8220

			460			
TAGTCCAGGT	CGACAAATCA	CAATTTGCTT	GTGAGATAGC	TATAAAAGTG	TGGAGAAATA	8280
GCTTGAAATT	TAGTATAATA	TAGCTAAACT	ATTTGTTTAA	AGTGAGAAAA	AAATGGGAAA	8340
TTTTAGCTTT	CTTTTAAAAA	ATGACGAATA	TGAATCTTTT	TCAAAACCTT	GCATTGAAGC	8400
TGAGAATATG	ATTGCTACAT	CAACTGTGGC	TACTGCCTTT	ATGGCGCGTC	GTGCTTTAGA	8460
GCAGGCTGTC	CATTGGATAT	ATAGTCACGA	TTCATATTTA	GAAGCTCCCT	ATCGTGCTAC	8520
TCTATCTTCT	TTAGTATGGG	ATGATGATTT	TAGGGATATC	GTAGATTCTG	AACTCCACAA	8580
GCAGATAGTT	CTGTTGATTC	GGTGGGGAAA	CCATGCTGCT	CATGGTGGTG	AAATTAAGGA	8640
ACGAGAAGCG	ATTTTAGCTT	TGCATCATTT	GTATCAGTTT	GTTAATTTTA	TCGATTATTG	8700
TTACAGCAAT	GAGTTTGTGG	AGCGTTATTT	TGATGAGAAG	TGCTTACCAC	TTTCAGCAAA	8760
CATCAAATAC	CGAGAAACTC	CACAATCTAT	GATAAAGTTA	CAAGACAGTT	TACCAGAACT	8820
GCCTGATTTT	CATGAACAGA	TGGCTGCTCA	GTCCGTAGAA	GTTCAAGAGA	CTTATACTGA	8880
AAAACGTGAG	ACTGCAGCGC	AACGGCAAGA	TGTGCCTTTC	CATATTGATC	AATTATCTGA	8940
GGCAGAGACA	AGAAAGCTCT	TTATTGATAT	CGATCTCCGT	TTAGCAGGAT	GGATATTTGA	9000
AGAAAACTGT	CGTGTTGAGA	TAGCCGTTGA	TGGTCTCAAG	CACGGTTCAG	GAATTGGTTA	9060
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AGCCTCTGTC	AATCCAGAAG	TAGGGGAAGT	ACAGGTCAAA	GAATATGCTG	AAGCTTTGGA	9180
GAAACATATC	GGCTATCAGC	CAATTTGCTT	TATTACAAAT	GGGTTGAAGC	ACTATATACT	9240
TGATGGTCCG	AACCGCCGCC	AGATTGCAGG	CTTTTACTCT	CAAGAAGAAT	TGCAATTAGT	9300
GATGGATAGA	CGTCATCTTC	AAAAACCGCT	TGAGGATATT	TCTAGTAAAA	TTAGGGACGA	9360
TATTTCCGGG	CGTCACTACC	AAAAACATGC	CATTGCAAGC	GTTTGTGAAG	CTTTCTCTGA	9420
TCATCGTAGA	CAGGCACTTT	TGGTTATGGC	AACTGGGGCG	GGGAAAACTC	GTACAGCAGT	9480
TTCTCTAGTT	GATATCTTAT	CACGTCATAA	CTGGGTAAAA	AACGTTCTCT	TCTTAGCCGA	9540
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CGTTTGTAAC	TTCTTAGAAG	ATAAAGAAGG	AGCTCAATCA	AGTCGCATGG	TCTTTTCAAC	9660
TTATCCGACC	ATGATTGGAG	CGATTAGTGG	TCAAGAAGAA	GTAAATCAAC	GCCCTTTCAC	9720
TGTTGGGCAT	TTTGACCTTA	TCATAATTGA	CGAATCTCAC	CGTTCTATTT	ATCAGAAATA	9780
CAAGTCCATT	TTTGATTATT	TTGATGCAAG	AATTGTAGGC	TTAACAGCTA	CTCCGCGTCA	9840
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TGATCATG	CG	GAATATATCA	GAGGTATTTT	TAACAACCGC	TATCCTGAAA	AAGGGAGCGA	10260
CTATGCTC	AG	GTGATTGATT	ATAGTATTAA	GCATTATCAG	ACCTTGATTG	ATGATTTTAA	10320
AATTÄAGG	AG	AAGTATCCTC	AAATTGCGAT	TTCTGTCGAT	ATGTTAGATA	CAGGTATTGA	10380
IGTACCAG	AG	GTTGTTAATT	TAGTCTTCTT	CAAGAAAGTA	CGCTCTAAAA	CTAAGTTTTG	10440
GCAGATGA	тт	GGTCGAGGĀA	CCCGTCTATG	TAAAGATTTA	TTTGGACCTG	AGCAGGATAA	10500
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AGATGGAG	AG	GGTCGTCACA	TTGTTTCGCT	GACTCAGCGT	ТТАТТТААТА	TCAAAGTGGA	10620
CTTGATTC	GA	GAACTTCAGG	GACTCCAATA	CCAAGAAGAT	CAGTTTGCGA	GAGCATACCG	10680
<b>FCAGCAGC</b>	тт	GTCTCGGAAC	TTCAAGGTCG	TATAGAGAGC	TTAAATGAGT	TGGACTTCAG	10740
GGTTCGTA	TG	GTTTTAGATA	CAGTTTATAG	CTATAGGAAA	TTGGAAAGTT	GGCAGAATCT	10800
<b>AACTGCTG</b>	тт	ACAAGTGAAA	CCATTCAAAA	AAATCTCTCT	CCGCTTTTAT	TTGATGAAGA	10860
PAAAGAAG.	ΑТ	GAGATGGCGA	GGAGATTTGA	TTTGTGGTTG	CTTCATATTC	AGTTGGGGCA	10920
ACTGACAG	CT	AAATCTTCCA	CTGTTCATAT	TTCCCAAGTG	ATGAAGACGG	CTAGAGCTCT	10980
l'TCTGCTA'	TT	GGCAATATCC	CGCAGGTTTT	TGAGCAGGCT	GAAATTATCA	GGAAAGTACA	11040
GAGCCTG.	AA	TTTTGGAAAG	AAGTTAACTT	GTCTGATTTG	GAAAAAATTC	GTCTTGCTAT	11100
CGAGATT	TA	TTACAGTTTT	TGGATAAAAC	AGACCGTAAA	CCCTACTATG	TTAACTTTGA	11160
GATCGTA'	TA	CTCTCCACTG	TTCACGAGAC	CACAGCATTT	TTGCAGGTCA	ACGATCTTCG	11220
TCTTACA	ΑТ	GAAAAAGTTG	AGCATTATTT	GAAAACTCAT	CTGGATGAGG	AGTCCATTTC	11280
AAGCTAT	AC	САТААТАААА	AGTTGACATC	TGATGATATG	CTTGCACTTG	AAAAATTGCT	11340
TGGGAAA	AA	TTAGGTAGTA	AAGCAGACTA	CCAAAGTCAT	TATGAAAATA	AGGCAATTCC	11400
AGATTGG:	ΓT	CGTGAGATTA	TTGGCTTAGA	TAGAGAGTCT	GCCAATCGTA	TTTTTTCTAA	11460
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TATGGTT	CT	GTTCAACTAC	TCTTCCAACA	CCAACTACCA	GTACTTCGTA	ATATTGTTCA	11640
ATCATTĢ <i>i</i>	AA	СТТАТСААТА	ATCGAGCTGG	AGAAGCGGCT	таааттстаа	AGTGATTGCC	11700
TGCTGAG	AC	TCATTTAAAA	TTAAAAAGAG	TAGAAATTTA	TGCTATATAT	GAGAAGTTTT	11760

462 ATTAGGAAGA ATGTCATCGT TTTCCTAGAA TACAGTATCA GTTGTTAAGT GGTTGATAAA 11820 TTTCAAAGTA GATACTTGTA CCACGATGTT TGTTGATCGA GTTATTAACA AAAGAGCTAC 11880 TTTGATTTTA AAGAAATAGA AAACAAAAAG CCGAGCAAGA ATTCAATTGC AGGAGAAAAT 11940 GAAATAATAC TCAATGAAAA TCAAAGAGCA AACTAGGAAA CTAGCTGCAG GCTGCTCAAA 12000 ACACTGTTTT GAGGTTGCAG ATGGAAGCTG ACGCGGATTG AAGAGATTTT CGAAGAGTAT 12060 AAATCTTCCT AGGATAAAGC AAAACGCATA GTATCAAGGG TTTTCAACAC TTGATACTAT 12120 GCGTTTTCTG ATGTTAAAGA CTTTCTACCA GGTTTTTTAA AAGCATAATT GTTAGTTGTA 12180 GTCATTTATT ATTCTTCAAA GAAAAATGGT GGGGCGAATT TTTTCAGTTC TTCAAAGCAC 12240 TTTTGAGCAG TATCTGCATC TTCACAGATG ATAAGACAGA CATCATTACC ACAAAGGGTA 12300 GCGATAGCGT CAGGGAAGCT CAAAGTATCA ATGATAGAAC CAAAGGATTG AGCCAGTCCA 12360 GGAAGGGTTT TTAGTAGGAC TTGGTGTTGA ACTGGGCGCA TCCAGACAAG GGCGTCTTCC 12420 ATGTAGAGTT CGAGACGTTT TTCCCATTTT GAGATGGAAC CATTGTTAAG AACATAATAA 12480 GCGCTATCTT CTTCGCGGAC TTTTGATAGG TTCATATTTT TGATGTCGCG TGAGAGGGTT 12540 GCCTGGGTTA CTTGAATGTC GTTCTCAGCA AGAAGGGCTT GCAACTCAGC CTGTGTATGA 12600 ATCTTGTTTT TTGTGATAAG AGCGCGTATA AGTTGGTGGC GGTGTTCTGA TTTATTCATA · 12660 ATAATGTAAC TCCTTTTAGC AAGGTAAGGT AAGCATGGAC TGAGCGAGGT CGACAGTCAA 12720 GTGGTAGTCT GTATTGTCAC GGATGGTGAT TTCAAAGTCA GTAGTATAGA GGACTAAACG 12780 GAGAGTGTCT CCTTCTTTA GCTTGTAAAT AGTTGGCTGC AGTTCAAATT GAACGTCCAT 12840 CCATTCATCT GCAGTAATAT CCTCTACTAA CAGTAAATCA TTTCTATTTT GTAAATTAAG 12900 GTAACCTTTT GTCACGACTC GTTGTGCCTC TGGTCTAAAT GGCAATTCAC AGAGATTTTC 12960 CAACATGTGA TAGCGACCGT TGTCAATGGT TCTAGCACTT AAAATAGCTG GATAAGGTTG 13020 TAGGTATTTC TTTTGCCCAA ATTCTAGCAG TTGGGCAGAT AAGAGCCCCT TGTTTGTACT 13080 GGATTTGATA CGAAGATTGA GCTGAGCGCG ACCGTTTAGG TGGAGATCTT TAGTCACAGG 13140 AAGGTTAATA GTAATCTGAT TGGCTTTCCC TTGATAGAGC TCTGTATTGA AGGTTTGGTA 13200 TGTCTTACCA TAGCGCTCAA AATCCTTATC TGGGTACTGG TTTTGAATAG CTTGCTCTTC 13260 TTGACCAGT GAGAAGGTTT CACAGTTTTC TTGCCCACCG AAGTTATCAA GTGATAACCA 13320 AGTCTGTGGA GCTGTATTGT CCTGCCAGAT AACAGTAGGA AGTTGAAAGT CTGTTTCCTG 13380 TCCTAGTAAT TTCTTGGTCA ATAAGGCATT TATGGACTCA CGGAAGTCAA TTGATTGCCA 13440 ATTGTTCATG TAAACATGGG CACCATTATG GAAAAAGAGA TGCTTGTGTA TATGAGTAGG 13500 AAGAGCATGG AACATCTGGT AAACATGAAG TGGTTTGACA TTCCAATCCT GAGAACCATG 13560

AGTAAAGACA	ACCTCTGCCT	TTACTTTATG	GGCATTGAGC	AGATAATTGC	GGTCATGCCA	13620
AAACTGATTG	TAGTCCCCAG	TTTTTCGGTC	TAGCTGAGCT	TTCACTTTTT	CTAAGTCAGC	13680
TTGGTGAGCT	TCATTGCCAC	GGATATAGTC	GCCAGCTAAG	AGATTACGAG	AATAGGTTAA	13740
CTCAGCAAGG	GAGTCAAAGT	CCTCACCTGG	ATAACCACCT	GGGCTAGTCA	CCAGACCGTT	13800
TTCACGGTAG	TAGTTGTACC	ATGATGAAAT	TCCTGCCTCG	GCAATGATAA	CTTCTAAACC	13860
ATCGACTCCT	GTAGTCGCAA	GACCATTGGA	CATGGTACCT	AGATAGGAAA	GTCCTGTTGT	13920
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GGCACGGCAA	CGACCGTTAA	GCCAATCGAT	GACATTTTTA	TAAGCCTCGA	TTTGCTGGTA	14040
GTCTCCATTA	GTCATGAAAC	CTGTCGAGTC	TTTGGTACCA	ACACCTGAGA	CATAGAGATT	14100
GGCAAAGCCT	CTCGGAAGGA	AGTAGTCGTT	TAGTGTATAG	CTAGAGTTGA	TGTGAGTTAG	14160
CTTTTCCTCA	GCCTCTGCTA	TAAGCTCAGC	TTTACCTTGG	GGTTGGACGA	GATTTAGTTG	14220
AGGTTTCTCT	AGCTCAATCT	TGTGAGGAAG	CTTAACCTCA	AGCTCGCCCT	CCATCTTGTA	14280
GAGAGCCTTG	TCACTAGCCT	TGTCATTGGT	TCCCTGATGA	TAAGGGCTGG	CTGTCATGAT	14340
GGCAGGGATT	TTTCCATCAA	AACGAGGGCG	AATAATGCTA	ACCTTTACTA	GGTCTGATAG	14400
CCCTTTTTGG	TCAGTATCGA	CACGAGACTC	AACGTAAACG	ACTTCACGAA	TGACATCCTG	14460
GTTAGAAAAA	GTAGCCAAAC	TCTTGCCGTT	AAAGTAGTGG	TAGTCATTAT	CCTCCGGAAT	14520
AAGACCATCA	CTAACAAGTT	GGTCGATAAG	AGTATTTCCT	TTTTTGGTGC	GAGTATTGAG	14580
TAACTGATAG	AGATTTTCAA	TCAAGTCACC	ATATATAATG	GGAAATCCAG	TTTCTTTACG	14640
AAAAACGTCA	CTATCTTCGA	AGTCAACCAA	ATAAGAAAAG	CCTAAAAGTT	GAAAAGCAAC	14700
AGTATAAAAA	ATATCTGCTG	TCAGTTCATC	TTCTGATTGA	AAAAATGTCA	GCAGGTCTGT	14760
TTTTTTATCA	GCTGCTAGGA	TAGAAAGTGG	GTAGTTGGTG	TCTTGATAAG	TGAAAAAGAA	14820
ACGACGTAAA	AAGGTTTCAA	GTGAGTCTTT	GTGATTGGCT	GTATTTTGTA	AATCAAAGCC	14880
ACATTTTTT	AGTTCAGATA	AGACATTTTC	TTTTGGAAAA	TTGATATAAC	TATATTGATT	14940
AAAACGCATA	GAACCTCCAT	ATAGAATGAC	AGTTAAGGTT	ATTATATCAA	AAAAAAAGCA	15000
GAAAGGGAAT	TGTTAACTTC	AAAAGGAAAT	AATCCAATAA	AAATGAATAA	AGTACTAAAT	15060
TCAATATAGA	GAACAGAGTA	ACAATAAGAA	TAAATAGATA	GGGTATAAAA	GTTCTAGGAG	15120
АТТТАТАТТА	TATGCTTTCT	ATTTTTATAT	ACAATATAGT	АТАААТАТАА	AAATGATGAC	15180
AAAAATACAA	ATGAATAGAA	AATAAATTAG	TAAGCTGATG	AAATTTTTCT	CAAGAGAAGC	15240
CATTTATAGG	TGAAAATGGT	ATAATATAGT	GAGAAGGATA	GAGGAGAAGT	GTAAATTGAT	15300

464 CGCACAACTA GATACAAAAA CAGTCTATAG TTTTATGGAA AGCGTCATTT CGATCGAAAA 15360 GTATGTGAGA GCAGCTAAAG AATACGGCTA CACTCATTTG GCTATGATGG ATATTGACAA 15420 TCTTTATGGC GCTTTCGACT TTCTAGAGAT TACAAAAAA TACGGCATTC ATCCTTTGCT 15480 AGGGCTTGAA ATGACAGTGT TTGTAGATGA TCAGGGAGTG AATTTGCGCT TTTTAGCTCT 15540 ATCTAGTGTG GGCTATCAGC AGTTGATGAA GCTTTCGACA GCCAAGATGC AGGGGGAGAA 15600 AACTTGGTCA GTCCTGTCCC AGTACCTGGA GGATATCGCG GTCATTGTGC CTTATTTTGA 15660 TAGAGTTGAG TCGTTAGAAC TAGGCTGTGA TTACTATATA GGGGTTTATC CAGAAACACT 15720 AGCAAGCGAA TTTCATCATC CTATCTTACC TCTTTATCGG GTCAACGCTT TTGAAAGCAG 15780 GGATAGAGAA GTTCTTCAAG TTTTAACAGC GATTAAAGAA AATCTACCGC TCAGAGAAGT 15840 TCCCTTGCGT TCGAGACAAG ATGTCTTTAT ATCAGCAAGT TCTTTAGAGA AACTATTCCA 15900 AGAGCGTTTT CCGCAAGCTT TGGACAATTT AGAAAAGCTT ATTTCAGGCA TTTCTTACGA 15960 CTTGGATACT AGTCTGAAAC TGCCTCGTTT TAATCCAGCT AGACCAGCAG TAGAGGAGTT 16020 GAGAGAGCGT GCTGAACTGG GGCTTGTTCA GAAGGGGTTG ACTAGTAAAG AATATCAAGA 16080 TAGACTAGAC CAAGAATTGT CTGTTATTCA TGATATGGGC TTTGATGATT ATTTCTTGGT 16140 TGTTTGGGAT TTGTTGCGTT TTGGACAATC GAATGGCTAT TATATGGGAA TGGGAAGGGG 16200 TTCTGCAGTA GGCAGTTTGG TTTCTTATGC CTTAGACATC ACGGGGATTG ACCCAGTAGA 16260 GAAAAATCTG ATTTTTGAAC GCTTTCTTAA TCGTGAACGC TATACCATGC CTGATATTGA 16320 TATTGATATC CCAGATATTT ATCGTCCAGA TTTTATCAGA TATGTTGGTA ATAAATATGG 16380 TAGTAAACAT GCGGCACAAA TCGTTACTTT TTCAACCTTT GGAGCCAAGC AAGCTCTTCG 16440 AGATGTCTTG AAACGCTTTG GTGTGCCAGA GTATGAATTA TCTGCAATTA CTAAGAAAAT 16500 CAGTTTTCGT GACAATCTTA AGTCGGCCTA TGAGGGAAAT CTCCAGTTTC GTCAGCAAAT 16560 CAATAGTAAG TTAGAATACC AAAAAGCTTT TGAGATTGCT TGCAAGATAG AGGGCTATCC 16620 AAGGCAAACC TCTGTCCATG CGGCTGGTGT TGTAATTAGT GACCAAGATT TAACCAACTA 16680 CATTCCTCTA AAGTATGGTG ATGAAATTCC ACTGACTCAG TATGATGCTC ATGGAGTTGA 16740 GGCTAGCGGA CTTTTGAAGA TGGACTTTCT GGGACTACGA AATTTGACCT TTGTCCAGAA 16800 GATGCAAGAG TTGCTTGCTG AAACAGAAGG TATTCATCTG AAAATTGAAG AAATCGATTT 16860 AGAAGACAAA GAAACGTTAG CTTTATTTGC CTCTGGTAAT ACAAAAGGTA TCTTTCAATT 16920

TGAGCAACCA GGTGCCATTC GTCTGCTTAA GCGTGTGCAA CCAGTCTGTT TTGAAGATGT

CGTCGCGACT ACTTCTCTAA ATCGACCGGG TGCTAGTGAC TATATCAATA ATTTTGTGGC

AAGAAAGCAT GGGCAGGAAG AAGTGACTGT TCTGGATCCA GTACTGGAGG ATATTTTGGC

16980

17040

TCCAACCTAC	GGCATAATGC	TCTATCAGGA	GCAGGTTATG	CAGGTTGCCC	AGCGACTTGC	17160
CGGATTTAGT	CTTGGGAAAG	CCGATATTTT	GCGTCGGGCT	ATGGGGAAAA	AGGATGCCTC	17220
TGCCATGCAT	GAGATGAGGG	CTTCCTTTAT	TCAAGGTTCA	TTAGAAGCTG	GTCATACTGT	17280
GGAAAAAGCA	GAGCAGGTCT	TTGATGTTAT	GGAGAAGTTT	GCAGGTTATG	GTTTTAACAG	17340
GTCACACGCC	TATGCCTACT	CAGCCTTGGC	CTTCCAGTTG	GCTTATTTCA	AAACGCATTA	17400
TCCAGCCATT	TTTTATCAGG	TCATGTTAAA	TTCTTCCAAC	AGTGATTACT	TAATAGATGC	17460
ACTTGAAGCA	GGTTTTGAAG	TAGCCTCTCT	ATCCATCAAC	ACCATTCCCT	ATCACGATAA	17520
AATTGCCAAC	AAGGCCATCT	ATCTAGGTTT	GAAATCCATT	AAAGGAGTCA	GTAATGATTT	17580
AGCTCTCTGG	ATTATTGAAA	ATAGACCTTA	TTCTAACATT	GAAGATTTTA	TAGCTAAATT	17640
ACCTGAGAAT	TATCTGAAAC	TTCCTCTGCT	AGAACCTTTG	GTAAAAGTTG	GTCTTTTCGA	17700
TTCATTTGAA	AAAAATCGTC	AAAAAGTATT	ТААТААСТТА	GCTAATCTAT	TTGAATTTGT	17760
GAAAGAGTTG	GGAAGTTTGT	TTGGAGATGC	TATTTATAGT	TGGCAGGAAT	CGGAAGATTG	17820
GACGGAACAA	GAAAAATTTT	ATATGGAACA	AGAGCTTTTA	GGGATAGGTG	TCAGCAAACA	17880
TCCACTACAA	GCTATTGCAA	GTAAGGCTAT	TTACCCGATT	ACCCCAATCG	GAAATTTGTC	17940
AGAAAATAGC	TATGCTATTA	TCTTGGTTGA	AGTTCAGAAA	ATAAAAGTGA	TTCGTACCAA	18000
AAAGGGTGAA	AATATGGCCT	TCTTACAGGC	AGATGATAGT	AAGAAAAAT	TGGATGTCAC	18060
TCTCTTTTCA	GACTTATATC	GTCAGGTTGG	ACAGGAAATA	AAAGAGGGAG	CCTTCTACTA	18120
TGTAAAAGGA	AAAATACAAT	CACGTGATGG	CCGTCTGCAA	ATGATTGCAC	AAGAAATAAG	18180
AGAAGCAGTT	GCTGAACGCT	TTTGGATACA	GGTGAAAAAT	CATGAATCGG	ATCAAGAAAT	18240
TTCACGCATT	TTAGAACAAT	TTAAAGGCCC	AATCCCAGTC	ATCATCCGGT	ATGAAGAGGA	18300
ACAGAAAACC	ATCGTTTCTC	CCCATCATTT	TGTAGCTAAA	TCCAATGAAT	TAGAGGAGAA	18360
attgaatgaa	ATCGTTATGA	AAACGATTTA	TCGCTAAAAA	TACGGAAAAT	AGAAGAATTT	18420
TCAACGTAAA	TGTGGTATAA	TCAGTAAGAA	TGTTAAAAGA	AAAAGGAGCA	TAACCAATAT	1.8480
GAAACGTATT	GCTGTTTTGA	CTAGTGGTGG	AGACGCCCCT	GGTATGAACG	CTGCCATCCG	18540
TGCAGTTGTT	CGTCAAGCAA	TTTCAGAAGG	AATGGAAGTT	TTTGGTATCT	ATGACGGATA	18600
TGCTGGTATG	GTTGCCGGTG	AAATTCATCC	CCTAGATGCA	GCTTCAGTAG	GGGACATCAT	18660
TTCTCGTGGT	GGTACTTTCC	TTCACTCAGC	TCGTTACCCA	GAGTTCGCTC	AACTTGAAGG	18720
GCAACTTAAA	GGGATTGAGC	AATTGAAAAA	ACACGGAATT	GAAGGTGTAG	TTGTTATCGG	18780
TGGTGACGGA	TCTTACCACG	GCGCTATGCG	TTTGACTGAA	CATGGCTTCC	CAGCTATTGG	18840

			466			
TCTTCCAGGT	ACAATCGATA	ACGATATCGT	TGGTACTGAC	TTTACAATCG	GTTTTGACAC	18900
AGCGGTTACT	ACTGCCATGG	ACGCTATCGA	TAAGATTCGT	GATACATCAT	CAAGTCACCG	18960
TCGTACTTTT	GTAATCGAAG	TTATGGGACG	TAACGCTGGT	GATATCGCTC	TTTGGGCTGG	19020
TATTGCAACT	GGTGCTGATG	AAATCATCAT	CCCTGAAGCA	GGCTTCAAGA	TGGAAGATAT	19080
CGTAGCAAGC	ATCAAAGCTG	GTTATGAATG	TGGTAAAAAA	CACAATATTA	TCGTCTTAGC	19140
TGAAGGTGTG	ATGTCAGCGG	CTGAATTTGG	TCAAAAACTT	AAAGAAGCTG	GAGATACAAG	19200
CGACCTTCGT	GTAACAGAAC	TTGGACATAT	TCAACGTGGT	GGTTCTCCAA	CTGCGCGTGA	19260
CCGTGTTTTG	GCGTCACGTA	TGGGTGCACA	TGCTGTTAAA	CTTCTTAAAG	AAGGTATCGG	19320
TGGTGTTGCG	GTTGGTATTC	GTAACGAAAA	AATGGTTGAA	AATCCAATTC	TTGGTACTGC	19380
AGAAGAAGGG	GCATTGTTTA	GCCTTACTGC	AGAAGGTAAG	ATTGTGGTTA	ACAACCCAGC	19440
TACAAA						19446

### (2) INFORMATION FOR SEQ ID NO: 52:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 16593 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: double
    (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 52:

1	<b>PCGTAAATAT</b>	GCTCTGTTTT	TGGATTTTGT	TTCTTAATCT	GTTTGGCAAG	TGCCTTCATC	60
2	ATAGAAATAG	GACCACACAT	ATAGACGGTT	GCATGTTCGG	GCACTTCTTT	TTGTTCAAAA	120
7	TTAAGATAGC	CGTCTTTCGT	ACTGTCGATT	AGATGGAGTT	CAAAATTAGG	ATTTTTCTGA	180
c	<b>SCATAGTTAC</b>	GGAGTAAATC	TAGGTAGACT	GCATTTTCAT	CTCCACGGAA	GCTATAGTAG	240
7	AAGTGAACCT	GTTTATCTAA	AATAGGATGT	TCACGGATGT	AAGAGATGAA	GGGGGTGATC	300
c	CCAATACCTC	CAGCAATCCA	AACCTGATTT	TCTCGTCCTT	CTTCTATGAT	CATGTGTCCG	360
2	PAAGCTCTGT	CTAGGGTTAC	TTTGCTGCCG	GCTTGAAGAT	TATCATAGAT	ATTCTTGGTA	420
2	rggtcgcctg	AAGTTTTAAC	AGTAAAGTAA	AGAGTTTGAC	CATGACCTCC	TGAGATAGAA	480
2	AAGGGATGCG	GAGCACTTTC	AAAGCCTTCT	TGGAAAATCT	TTAGAAAGGC	AAATTGTCCT	540
¢	GATTGATAGT	TGAAAGGTCT	GCTAAGATGG	ATTTGAATTT	CTCTAGTATC	GTGATTTAAG	600
(	CGTTTGAGAT	GGGTAATTTT	CCCTAGATAG	GGGAAGGAAA	TCTTTTGATA	TAGAAAAATG	660
Į	TATAAAAAC	CAGCTAGTAA	GCCTAAAAGG	GCATAGCTAC	CAACAAGAAA	ACTTAGAAGA	720
7	TAAATGTAA	GGAGACGATT	GCCCATTATC	ATGTAGATGT	GAAAGAGTCC	TAAAATATAG	780

GCTAGGTAAA	CCAGGCGGTG	AATCCATCGC	CAAGCTTCGT	ATTGGATGTA	TTTGCCTAAA	84
TAGGCGACAA	GGATGATGCT	GGCAAAGATA	TAGATGGCAA	GATTGCCAAA	CTGAGCAGCT	900
AAGCGAGAGC	CCCACAAACC	GCCCATACTA	AAGTTATGAA	AGATTAGTAG	GATGATTGAG	960
AGAAAGGCTG	TGAATTTGTG	GACGGTGTAG	ACCTTCTCCA	AACTGTGAAA	CCAGCTTTCT	1020
AGTAGTGGGA	GACGAGTGGC	TAGGATAAAA	GTCAGAGATA	GGCTTGTTAA	AGCTAGTCCT	1080
GGAATCATGA	ATTGGGGAGA	AGTGTTCATC	CAAGTCAAAA	GAGTCAAGAT	AAAACTAGCT	1140
ATGATAAAGA	GTAGTCCTTT	GACTGATTTC	ATAGAAAATT	CCATTTCATT	TAGATTTCGA	1200
TTTGTTGTAA	ATAAATTTGT	TACATTTTAT	CATAGAAAAT	GTATGGTGTC	AAATTGAGGT	1260
CTATAAATAT	CTACTCTCAT	CAAAAAACTC	TCCAATTGAA	CTGGAGAGTG	GCTGTTTATA	1320
CTCAATGAAA	ATCAAAGAGC	AAACTAGGAA	GCTAGCCGCA	AGTTGCTCAA	AACACTGTTT	1380
TGAGGTTGCA	GATAGAGCTG	ACGTGGTTTG	AAGAGATTTT	CGAAGAGTGT	TATTCTGCAG	1440
CTTGTTGCCA	ACGTTTGGCT	AGCATATGAG	ACAGGCŤAGA	AATTGCTAGG	TTAAAGCTGA	1500
AGTAGATGAG	GGCAATCAGG	ATGTAAAGAC	TGAAGACCTG	CTCTGGTTCG	AAATAACGGC	1560
CCATGAGAAT	TTGGCTGGCT	CCAAAGAGTT	CTTGTAGGGC	GATAACAGAG	TAGAGGAGAC	1620
TGGTATCCTT	AATCACGGTA	ACAAACTGAG	AAATGATGGC	TGGTAGCATT	TTGCGGATGG	1680
CTTGTGGGAG	AATGATGTAG	TAGAGGATTT	GGGCTGAGGT	GAAGCCTTGT	GACATTCCTG	1740
CTTCGTACTG	TCCCTTGTCT	ACGGCATTGA	GACCGCCTCG	AATAATCTCA	GCCAAGGCTG	1800
CTGATGTAAA	GAGAGTAAAG	GCTGTAATAC	CTGCTGGTGT	GGATTTCATT	TTGAACACCA	1860
AAAAGATAGT	AAAAATCCAG	AGAAGGTTGG	GAACGTTGCG	CACAAACTCG	ATATAAATAC	1920
TGGAAATAAT	GCGTAAGACA	GGATTTTTGC	CATTTCTCGT	GACAGCTAGC	ACCGTACCGA	1980
TGATAGTAGA	GAGGATGATG	GCAATCAGAG	AAATATAGAG	GGTCAAGCCA	AATCCTTTAA	2040
AGATAAAGAC	TAGGTTATCT	GGGGTTAAAA	СТТСТААААТ	AGATTCCATA	GTAACCTCCT	2100
AAAGTGAATA	GGCTTTTTTG	TTGGCTTGCT	CCATCTTGCG	ACCAAACTGG	GCAACAGGGA	2160
AGCATAGAGC	AAAGTAGAGA	AGAGCAGCAC	CTAAAAAGGC	TGGTATATAG	TTTCCGTTGA	2220
GAGCCGACCA	AGACTTAGTC	ACAAACATCA	AGTCTACTCC	AGAGATGATA	GCTACAGTAG	2280
AGGTGTTCTT	GATGAGGTTA	ACAATTTGGT	TGGTCAATGG	AGGGAGAATG	ATGCGGAAGG	2340
CCTGAGGCAA	GATAATCAAG	CGCATGGCAC	TGATATAGGT	AAAACCTTGC	GACAAGGCGG	2400
CCTCCATCTG	ACCACTAGGA	ATAGACTGAA	TCCCTGAACG	AATAACCTCA	GCGATATAAG	2460
CGCCGTGATA	GAGTCCCACG	CAGAGAACGG	CTGTCCAATA	AATTGGAATC	ATGATGATAT	2520

GGTCACTGAT AAGAGGTAGG CCATAAAAAA CAATAACAAA CTGCACCAAG AGGGGAGTAT 2580 TTTGGTAAAA TTCAACAAAG ATGCGAGCTA AAATGCGTAA AATTGGACGT TTACTGGTTG 2640 ACATGGCACC AAAGAAGATG CCCAAAACCA TAGCGAGGAT AAAGGAACCA ACCGCTAGGG 2700 CAAGGGTGAA GAGGAAACCA TTGAAAAATT GTCCAAAATC CTGAAAATAG GCTGTCCAAG 2760 ATGATAAATC TGTCATGGGG TGTCCTCCTT AATCTGCAGT ATGGCTAGAT GGTTTGAGCT 2820 TGTAACGGTC ATAAAGTTTC TGCAAACTAC CATCCTTGCT CCATTTAGTA ACCAAGTTAT 2880 CAAGATAGTC GTTGAGCTCT GTATTTGATT TCTTGGTAAC AATACCGTAG TCAGATGGCT 2940 TGAAACTATC ATCTAGTAGT GCTGTCCGTT TACTAGTGTA GCCAGATAGA ATAGAGCGGT 3000 CAACGGAAAA GGTATCGATA CGATGAGCGT GCAGGGAAGT AATCAATTCT GGGTAGGAAC 3060 CAAGTTCGAC GAATTTAAAC TTCAGACCTT TCTTTTTACC CAGTTCAGTA ATCAGGCGTT 3120 GGGTGATAGA ACCTTGGGCG ACTCCGATGG TTTTGCCGTT TAGGTCCTCA ATCTTTTTGA 3180 TTTTGGCAGA TTTATTGACC AAAAATCCAG AAGCGTCTGT GTAGTAGGGA CTGGTAAAGT 3240 TGTAGAGTTT TTTGCGTTCG TCCGTGATGG TAAAGGTCGC GATATCCATA TCGACCTGTT 3300 CATTGTCTAG AAGGGGGCCG CGGGTTTGTG CTGTAACCGG CACATAGCGA ATCTTGACCT 3360 TGAGTTCATC AGCTACCATC TTGGCCAAGT CGGTTTCGAT ACCAGAATAA GTACCGGTCT 3420 TGGGATCTTT GTAACCAAAA TTGGGAACGT CTTGTTTGAC ACCGACAACC AGTTCGCCTC 3480 TTTTTTGAAT GTCTGCGATA CTTGTATCAG CCTGGACTGG TTTGGCAGCA GCAAGGCCGA 3540 AAAGGCTAAT CAATAATGCT GATAAAAAGA ATTTTTTTC ATAGGCGCCT CCTTATTTGA 3600 CTTTGTCACT TTCGTGGTTG ATAATTTTGC TGAGGAATTG TTGGGCACGA GGTTCGCTTG 3660 GATTGTCAAA AAAGTTATCG ACATCTGTCG TATCTACTAA AACTTCTCCG TCGGCCATAA 3720 AGATAATGCG GTCCGCAACC TCTCGAGCAA AGCCCATTTC GTGGGTAACG ATGATCATGT 3780 TCATCCCATC ATGCGCCAGT TTCTGCATAA CTGCTAGAAC ATCTCCGATA GTCTCAGGAT 3840 CAAGAGCAGA TGTTGGTTCA TCAAAGAGGA GGAGTTCCGG ATGCATAGCA AGACCACGAG 3900 CGATGGCGAT CCGCTGTTTT TGTCCACCAG ATAGCATGGC GGGATAGGAA TCTTTCTTGT 3960 CCCACATATT TACAAATTCC AGATATTTTT GGGCGGTTTT TTCAGCTTCT TTTTTATCAA 4020 TTCCTAGAAC TTCAATGGGT GCAAGCGTTA CGTTTTCTAA CACAGCTTTG TGTGGATAAA 4080 GGTTAAAATG TTGAAAAACC ATGCCGACTT CCTTGCGAAG AGGTACCAAA TCTTTCTGGC 4140 TGGCACCAGC AACTTGGTGC CCATTGACTA GGAGACTTCC TTTGTCAACA GTCTCTAAAC 4200 CATTGATCGT ACGGATAAGA GTGGACTTCC CAGAGCCAGA AGGTCCAAGC AGGACAACAA 4260 CTTGTCCTTT TTCAAAACGG AGATTGATGT TGCGGAATGC GTGGTAGTCT CCGTAATATT 4320

PTTC	GACGTT	TTTAAATTCT	ACTAAAGCCA	TGAGAGATCT	CTATTGTGTT	ATATTTTATA	4380
ACAC	GGTTCT	ACAATAAAAG	AATGTTCTTG	TCAAATCATA	TCTGAAAAA	TTCACTATAG	4440
rgaa	ATAAGA	ACAGGAAAAA	TCGATCGGGA	CAGTCAAATC	GATTTCTAAC	AATATTTTAG	4500
AAGT	AGAGGT	GTACTATTCT	AGTTTCAATA	TACTATAAAA	TGTTATAAAA	AAGCAATCTG	4560
SATA	GAGAAA	ACGTCTAAAT	CATGTTATAA	TGAAGCAATA	GAATTCTTAG	AAAGAGTGGA	4620
rgtc	TTTTTG	ATAACACCTA	CTTATGAATG	GCAGTTTGCC	CTGCAGGTAG	AAGATGCGGA	4680
LTTT	ACAAAG	ATAGCCAAGA	AGGCTGGACT	GGGTCCTGAG	GTGGCTCGGT	TATTGTTTGA	4740
GAGA	GGGATT	CAGAACCAAG	AAAGTCTGAA	GAAGTTTTTA	GAACCTTCCT	TGGAGGACTT	4800
ACAT	GATGCT	TATCTGCTCC	ATGATATGGA	CAAGGCAGTG	GAGCGGATTC	GTCAGGCTAT	4860
rgaa	GAAGGG	GAAAATATTC	TTGTTTATGG	AGACTATGAT	GCGGATGGCA	TGACTTCGGC	4920
rtet	ATTGTG	AAGGAAAGTT	TGGAACAACT	TGGTGCTGAG	TGCCGAGTTT	ACCTGCCAAA	4980
rcgt	TTTACC	GATGGCTATG	GCCCTAATGC	TAGTGTTTAT	AAATACTTTA	TCGAGCAAGA	5040
AGGG	ATTTCC	TTGATTGTGA	CGGTGGACAA	TGGGGTTGCT	GGTCATGAGG	CTATTGCATT	5100
GCT	CAGTCT	ATGGGAGTAG	ATGTCATTGT	GACAGACCAT	CATTCCATGC	CTGAAACCCT	5160
GCCA	GATGCT	TATGCTATTG	TCCATCCTGA	ACATCCAGAT	GCGGATTATC	СТТТТАААТА	5220
rttg	GCTGGT	TGTGGAGTTG	CTTTCAAGTT	GGCTTGTGCC	CTGTTAGAAG	AAGTGCAAGT	5280
GAA	TTGCTT	GATTTGGTCG	CTATTGGAAC	TATTGCAGAT	ATGGTGAGTC	TGACGGATGA	5340
<b>LAAT</b>	CGTATC	TTAGTTCAAT	ATGGTCTGGA	AATGTTGGGT	CATACCCAGC	GCATTGGTCT	5400
GCAA	GAAATG	CTGGACATGG	CTGGGATTGC	TGCCAACGAA	GTAACAGAAG	AAACGGTTGG	5460
TTC	CAGATT	GCTCCTCGTT	TGAATGCCTT	GGGTCGCTTG	GATGATCCCA	ATCCTGCCAT	5520
rgat	TTGTTG	ACTGGATTTG	ATGATGAGGA	AGCGCATGAG	ATTGCCCTTA	TGATTCACCA	5580
GAAA	AACGAA	GAGCGCAAGG	AAATCGTTCA	GTCTATCTAT	GAAGAAGCCA	AGACCATGGT	5640
GAT	CCTGAG	AAGAAGGTTC	AGGTCTTGGC	CAAGGAAGGC	TGGAATCCTG	GGGTTCTAGG	5700
AATC	GTGGCT	GGTCGTTTAT	TGGAAGAATT	GGGACAGACA	GTCATTGTTC	TTAATATAGA	5760
AGAC	GGTCGT	GCCAAGGGCA	GTGCTCGTAG	TGTGGAAGCG	GTCGATATTT	TTGAAGCTCT	5820
GGAT	CCCCAT	CGAGACCTCT	TCATCGCCTT	TGGAGGTCAT	GCAGGTGCAG	CGGGTATGAC	5880
CTG	GAAGTT	GAGCAACTCT	CAGATTTATC	TCAGGTTTTG	GAAGATTATG	TTCGTGAAAA	5940
AGGT	GCAGAT	GCTGGTGGCA	AGAATAAGTT	AAACCTAGAT	GAAGAGTTGG	ATTTGGAGGC	6000
ACTT	AGCTTG	GAAACGGTCA	AAAGTTTTGA	ACGTTTAGCT	CCTTTTGGAA	TGGATAATCA	6060

			470			
GAAACCTATT	TTTTATATCA	AGAATTTTCA	GGTCGAAAGT	GCTCGTACTA	TGGGGGCAGG	6120
PAATGCCCAT	CTAAAGCTGA	AAATTTCCAA	GGGTGAGGCG	AGTTTTGAAG	TGGTAGCCTT	6180
<b>FGGTCAAGGC</b>	AGATGGGCGA	CAGAGTTTTC	TCAAACCAAG	AATCTAGAGT	TAGCGGTTAA	6240
ATTGTCTGTC	AACCAATGGA	ATGGCCAAAC	TGCCCTCCAG	TTGATGATGG	TGGATGCGCG	6300
AGTGGAAGGT	GTTCAACTTT	TTAACATTCG	TGGAAAAAAT	GCAGTCTTGC	CAGAAGGTGT	6360
TCCAGTCTTG	GATTTTCCTG	GAGAACTGCC	AAATCTTGCG	GCTAGTGAAG	CTGTTGTCGT	6420
AAAAAACATT	CCAGAGGATA	TTACTCAGCT	GAAGACCATT	TTTCAGGAAC	AGCATTTCTC	6480
TGCTGTCTAT	TTCAAAAATG	ATATTGACAA	GGCTTATTAT	CTGACAGGTT	ATGGGACTAG	6540
AGATCAGTTT	GCCAAATTGT	ACAAGACTAT	TTACCAGTTC	CCAGAGTTTG	ATATTCGCTA	6600
CAAGCTGAAA	GATTTGGCTG	CATATCTTAA	TATTCAACAA	ATCTTGCTGG	TCAAGATGAT	6660
TCAAGTATTT	GAAGAACTAG	GCTTTGTGAC	GATAAAAGAT	GGTGTGATGA	CAGTCAATAA	6720
AGAGGCGCCA	AAGCGGGAGA	TAGGAGAAAG	TCAAATTTAC	CAAAATCTCA	AACAAACCGT	6780
TAAAGACCAA	GAAATGATGG	CGCTGGGTAC	GGTGCAAGAA	ATTTATGATT	TTTTGATGGA	6840
AAAAGAGTAG	AAGTTAGGAA	AGAGTTGGGA	AATCAACTCT	TTTTTGAAAA	CAGACCTTCA	6900
TTTTGAAAAT	CATCAAAAAA	ATGGTATAAT	GGTAGGAAAA	GATTCGGCTG	AAAGTATCAG	6960
AACTTTTAGA	ATAAGAGGGT	AGAATTGCCC	TATAATCAAG	ATAAACTAAG	ATTTTGGAGG	7020
AAAAATGAGT	AATATCAGTT	TAACAACACT	TGGTGGTGTG	CGTGAGAATG	GAAAAAATAT	7080
GTACATTGCT	GAAATTGGAG	AGTCCATTIT	TGTTTTGAAT	GTAGGGTTAA	AATATCCTGA	7140
AAATGAACAA	TTAGGGGTCG	ATGTGGTGAT	TCCAAACATG	GATTACCTTT	TTGAAAATAG	7200
CGACCGTATT	GCTGGGGTTT	TCTTGACCCA	CGGGCATGCG	GATGCCATTG	GTGCTCTACC	7260
GTATCTCTTG	GCAGAGGCTA	AAGTTCCTGT	ATTTGGGTCT	GAGTTGACCA	TTGAGTTGGC	7320
AAAGCTCTTT	GTCAAAGGAA	ATGATGCCGT	TAAGAAATTT	AATGATTTCC	ATGTCATTGA	7380
TGAGAATACG	GAGATTGATT	TTGGTGGGAC	AGTGGTTTCC	TTCTTCCCTA	CGACTTACTC	7440
CGTTCCAGAG	AGTCTGGGAA	TTGTCTTGAA	GACATCGGAA	GGAAGCATCG	TTTATACAGG	7500
TGACTTCAAA	TTTGACCAAA	CGGCTAGTGA	ATCTTATGCA	ACTGATTTTG	CTCGTTTGGC	7560
AGAGATTGGT	CGTGACGGCG	TCCTGGCTCT	CCTCAGTGAT	TCGGCCAATG	CAGACAGCAA	7620
TATTCAGGTG	GCTAGTGAAA	GTGAAGTTAG	GGATGAAATT	ACCCAAACTA	TTGCTGACTG	7680
GGAAGGTCGT	ATCATCGTTG	CAGCTGTTTC	CAGTAATCTT	TCTCGTATTC	AGCAGATTTT	7740
TGACGCTGCG	GATAAAACAG	GTCGACGTAT	CGTCTTGACA	GGATTTGATA	TTGAAAATAT	7800
CGTCCGCACA	GCGATTCGTC	TTAAGAAGTT	GTCTTTAGCC	AACGAAATTC	TTTTGATTAA	7860

GCCTAAAGAT	ATGTCTCGCT	TTGAAGACCA	TGAGTTGATT	ATTCTTGAGA	CAGGTCGTAT	7920
GGGTGAGCCT	ATCAATGGAC	TTCGTAAGAT	GTCGATTGGT	CGCCATCGTT	ATGTAGAAAT	7980
CAAGGATGGG	GACCTAGTCT	ATATTGCTAC	GCCTCCGTCT	ATTGCTAAAG	AAGCCTTTGT	8040
TGCGCGTGTG	GAAAATATGA	TTTATCAGGC	AGGTGGGGTT	GTCAAATTGA	TTACCCAAAG	8100
TTTACATGTA	TCAGGGCACG	GAAATGTGCG	TGATTTGCAG	CTGATGATCA	ATCTTTTGCA	8160
ACCTAAGTAC	CTCTTCCCTG	TCCAAGGGGA	GTATCGTGAG	TTGGATGCTC	ACGCTAAGGC	8220
TGCCATGGCA	GTTGGGATGT	TGCCAGAACG	CATCTTCATT	CCTAAAAAGG	GGACGACCAT	8280
GGCTTACGAG	AATGGAGACT	TTGTTCCAGC	TGGATCGGTT	TCAGCAGGAG	ATATCTTGAT	8340
TGATGGGAAT	GCCATTGGTG	ATGTTGGAAA	TGTTGTTCTT	CGTGACCGTA	AGGTCTTGTC	8400
AGAGGATGGA	ATTTTCATCG	TGGCTATTAC	AGTCAACCGT	CGTGAGAAGA	AAATTGTGGC	8460
TAGGGCTCGT	GTTCACACGC	GTGGATTTGT	TTATCTCAAG	AAGAGTCGCG	ATATTCTCCG	8520
TGAAAGTTCA	GAATTGATTA	ACCAAACGGT	AGAAGAGTAT	CTTCAAGGAG	ATGACTTTGA	8580
CTGGGCAGAT	CTCAAAGGTA	AGGTTCGTGA	CAATCTGACC	AAGTACCTCT	TTGATCAAAC	8640
CAAGCGTCGC	CCAGCCATTT	TACCAGTAGT	CATGGAAGCA	AAATAATCGT	TGAAATAAAC	8700
AGAGAGAAAG	TCGAGTTTCG	GCTTTTTCTT	ATAGAAAAAT	AGAAGGAGAA	AATCATGGCA	8760
GTGATGAAAA	TCGAGTATTA	CTCACAAGTA	TTGGATATGG	AGTGGGGGGT	GAATGTCCTC	8820
TACCCTGATG	CCAATCGAGT	GGAAGAACCA	GAGTGTGAAG	ATATTCCCGT	CTTGTACCTT	8880
TTGCACGGGA	TGTCTGGAAA	TCATAATAGT	TGGCTTAAGC	GGACCAATGT	AGAACGCTTG	8940
CTTCGAGGAA	CTAATCTCAT	CGTTGTTATG	CCCAATACCA	GCAATGGTTG	GTACACCGAT	9000
ACCCAGTATG	GTTTTGACTA	CTACACGGCT	CTAGCAGAGG	AATTGCCACA	GGTTCTGAAA	9060
CGCTTCTTCC	CTAATATGAC	GAGCAAGCGT	GAAAAGACCT	TTATCGCTGG	TCTTTCTATG	9120
GGAGGCTACG	GCTGCTTCAA	ACTGGCTCTT	ACGACAAATC	GTTTTTCTCA	TGCAGCTAGT	9180
TTTTCAGGTG	CCCTCAGCTT	TCAAAACTTT	TCTCCTGAAA	GTCAAAATCT	GGGAAGTCCA	9240
GCCTACTGGA	GAGGTGTTTT	TGGAGAGATT	AGAGACTGGA	CAACTAGTCC	CTATTCTCTT	9300
GAAAGTCTGG	CTAAAAAATC	GGATAAAAAG	ACCAAACTTT	GGGCGTGGTG	TGGCGAACAG	9360
GATTTCTTGT	ACGAAGCCAA	TAATCTCGCA	GTGAAAAATC	TCAAAAAACT	AGGTTTTGAT	9420
GTGACCTATA	GCCATAGCGC	TGGAACTCAC	GAGTGGTACT	ACTGGGAAAA	ACAATTGGAA	9480
GTTTTTTAA	CAACCCTACC	AATTGATTTC	AAATTAGAAG	AGAGACTGAC	TTAGTTTGAA	9540
CTTCAGCATA	GGGGGAGTAG	AACTAAAATA	AAATATGTTT	TCACTAGACT	TTTCAAACGm	9600

AAGTAGTAGA ATAGTAATAA AATACTGGAG GAAAGAGAGT AGGAAATGTA CCGTTATCAA 9660 ATTGGCATTC CCACATTAGA ATATGATCAG TTTGTCAAAG AACATGAATT AGCCAATGTA 9720 TTACAAAGTA GTGCTTGGGA GGAAGTTAAG TCTAATTGGC AACATGAGAA GTTTGGTGTT 9780 TACAGGGAAG AAAAATTACT GGCGACAGCT AGTATTTTGA TTAGAACTCT TCCGCTAGGC 9840 TATAAAATGT TTTACATCCC AAGAGGACCT ATATTGGATT ATGGGGATAA AGAACTCTTG 9900 AATTTTGCCA TTCAGTCTAT TAAGTCCTAT GCTCGCAGTA AGAGAGCGGT TTTTGTGACT 9960 TTTGACCCAA GTATTTGCCT ATCTCAAAGT TTAATCAATC AGGAAAAGAC AGAATTTCCT 10020 GAAAATCTGG CTATTATTGA TAGTTTGCAA CAAATGGGAG TAAGGTGGTC AGGAAAAACG 10080 GAGGAAATGG GAGACACCAT TCAACCTCGT ATTCAGGCGA AAATATACAA GGAAAATTTT 10140 GAAGAAGATA AACTITCCAA GTCAACAAAA CAGGCTATTC GAACAGCACG AAACAAAGGG 10200 CTTGAGATTC AATATGGTGG ACTGGAACTA TTAGATTCAT TTTCGGAGTT GATGAAAAA 10260 ACTGAGAAGC GAAAAGAGAT TCATTTGAGG AATGAAGCCT ATTATAAAAA ATTGTTAGAT 10320 AATTTTAAGG ACAAGGCCTA TATCACCTTG GCCACCTTGG ATGTTTCTAA ACGTTCGCAA 10380 GAGTTAGAAG AACAGTTAGC GAAAAATAGA GCCTTGGAAG AGACCTTTAC TGAGTCGACT 10440 CGAACTTCAA AAGTAGAAGC GCAGAAGAAG GAAAAAGAAC GTTTGTTAGA GGAATTGACC 10500 TTCTTGCAGG AATATATAGA TGTAGGTCAA GCGAGAGTTC CTTTAGCGGC TACTTTGAGT 10560 TTGGAATTTG GTACTACCTC TGTCAATATA TATGCTGGTA TGGATGATGA TTTTAAACGT 10620 TACAATGCAC CAATTTTAAC TTGGTATGAA ACGGCTCGCT ATGCCTTTGA ACGAGGTATG 10680 ATCTGGCAAA ATTTAGGTGG TGTTGAAAAC TCTCTCAATG GTGGACTTTA TCATTTTAAG 10740 GAAAAATTTA ATCCAACGAT TGAAGAATAC TTGGGTGAAT TTACAATGCC CACTCATCCT 10800 CTCTATCCTC TGTTAAGACT TGCTCTTGAT TTCCGTAAAA CATTAAGAAA AAAACATAGA 10860 AAGTAAGTAT ATGGCACTAA CAACACTCAC GAAAGAAGAG TTTCAGACTT ATTCTGATCA 10920 GGTTTCTTCT CGTTCCTTTA TGCAATCTGT CCAGATGGGG GATTTGCTAG AAAAAAGAGG 10980 GGCTCGAATT GTTTATCTTG CTTTGAAACA AGAAGGAGAA ATTCAAGTTG CAGCTCTGGT 11040 TTATAGCCTG CCCATGCTGG GTGGTCTGCA TATGGAACTC AATTCGGGGC CGATTTATAC 11100 CCAACAAGAT GCTCTTCCAG TTTTTTATGC AGAGTTAAAA GAATATGCCA AGCAAAATGG 11160 TGTATTAGAG TTGCTTGTAA AACCCTATGA AACTTATCAA ACTTTTGATA GCCAAGGTAA 11220 TCCAATAGAT GCTGAGAAAA AAAGTATTAT TCAAGATTTG ACTGATTTAG GTTATCAATT 11280 TGATGGCTTA ACAACAGGTT ACCCAGGTGG AGAACCAGAT TGGTTATACT ATAAAGATTT 11340 AACTGAATTA ACTGAAAAGA GTTTGCTTAA AAGTTTTAGC AAAAAGGGTA AACCCTTGGT 11400

GAAAAAGGCT	GAAACCTTTG	GCATTCGGTT	GAAAAAGTTA	AAACGTGAAG	AACTATCGAT	11460
TTTTAAGAAT	ATAACAAAAG	AAACCTCTGA	ACGTAGAGAA	TATAGTGATA	AAAGTTTAGA	11520
ATATTATGAG	CATTTTTATG	ATACTTTTGG	AGAACAAGCG	GAGTTTCTCA	TAGCAAGCTT	11580
AAATTTTTCG	GACTATATGA	GCAAATTGCA	AGGTGAACAA	AGTAAACTAG	AAGAAAACTT	11640
GGACAAGTTG	CGACTTGATT	TGAGTAAAAA	TCCTCATTCT	GAGAAAAAAC	AAAATCAACT	11700
GAGAGAATAT	TCTAGTCAAT	TTGAAACGTT	TGAAGTTCGA	AAAGCAGAAG	CGCGAGACTT	11760
GATTGAAAAA	TATGGAGAAG	AAGATATTGT	TTTAGCTGGG	AGTTTATTTG	TTTATATGCC	11820
TCAGGAAACG	ACTTATCTCT	TTAGTGGTTC	CTACACTGAG	TTTAATAAGT	TCTATGCCCC	11880
TGCACTGCTT	CAAAAATATG	TTATGTTGGA	AAGCATAAAA	CGTGGAATAC	СТАААТАСАА	11940
CTTCCTAGGC	ATTCAAGGGA	TTTTTGATGG	AAGTGATGGT	GTTTTGCGTT	TTAAACAGAA	12000
TTTTAATGGC	TATATTGTAC	GCAAAGCAGG	TACTTTCCGT	TACCATCCAT	CGCCTTTAAA	12060
ATACAAAGCT	ATCCAGTTAC	TCAAAAAAAT	AGTAGGACGT	TAAGATGAAA	AAGTCAGTAT	12120
TTAGATTTCT	TTTAGCTTCT	TTTAGTAAAA	TAATTCTTAT	TTGCTAGAAA	GGTGGAGAGA	12180
CATGCGCTGG	CTTTTTCGTT	TGATAGGGGC	TTTCTTTTCT	TTTGTGTGGC	GTTTGTTTTG	12240
GCGTCTGGTT	TGGATAGTTG	TGCTCTTATG	TGTGCTTGCT	TTCGGACTTC	TCTGGTATCT	12300
GAACGGAGAT	TTTCAAGGAG	CGCTAAAGCA	AGCAGAACGG	TCAGTAAAA	TTGGTCAACA	12360
AAGTATTGAC	CAATGGGAGA	AAACAGGGCA	ACTGCCTAAG	TTAAGCCAGA	CAGATAGTCA	12420
CCAGCATTCT	GAAGGAAGGT	GGGCACAGGC	CTCTGCTCGT	ATTTACCTGG	ATCCGCAGAT	12480
GGATTCACGC	TTTCAAGAGG	CTTATTTAGA	AGCAATCCAG	AACTGGAATC	AAACTGGTGC	12540
TTTTAACTTT	GAACTCGTGA	CTGAGTCTAG	TAAGGCGGAT	ATTACGGCTA	CGGAGATGAA	12600
CGACGGAGGC	ACTCCTGTGG	CAGGAGAGGC	GGAAAGTCAA	ACTAATCTCT	TAACAGGGCA	12660
ATTCTTGTCC	GTAACGGTGC	GGTTGAATCA	TTATTATTTG	TCCAATCCAT	ACTATGGCTA	12720
CTCCTATGAA	CGCCTTGTCC	ATACGGCAGA	ACATGAGTTA	GGTCATGCGA	TTGGCTTGGA	12780
CCATACAGAT	GAGAAGTCTG	TCATGCAACC	AGCAGGTTCC	TTTTATGGTA	TCCAGGAAGA	12840
GGATGTTGCA	AACCTCCGAA	AAATATATGA	GACTAGTGAG	TAGGGTACTA	TCTTTCCCTA	12900
CTTTTTTTGC	TATAATGGAA	CTATGAACAA	CTTGATTAAA	TCAAAACTAG	AGCTCTTGCC	12960
GACCAGCCCT	GGTTGCTACA	TTCATAAGGA	TAAAAATGGC	ACCATTATCT	ATGTAGGAAA	13020
GGCTAAAAAT	CTGCGTAATC	GAGTACGGTC	CTATTTTCGT	GGAAGTCATG	ATACCAAGAC	13080
AGAGGCTCTG	GTGTCTGAAA	TTGTGGATTT	TGAATTTATT	GTTACGGAGT	CTAATATTGA	13140

			474			
GGCACTTCTC	CTAGAAATCA	ACCTGATCAA	GGAAAACAAG	CCCAAGTACA	ATATCATGCT	13200
CAAGGATGAC	AAGTCCTATC	CTTTCATCAA	AATCACCAAT	GAGCGCTATC	CACGCTTGAT	13260
TATCACTCGT	CAGGTCAAAA	AGGACGGAGG	TCTTTATTT	GGACCCTATC	CCGATGTGGG	13320
GGCAGCCAAT	GAAATCAAGC	GGTTGCTGGA	TCGGATATTC	CCTTTTCGTA	AGTGTACCAA	13380
CCCCCCCTCT	AAGGTCTGTT	TTTATTACCA	TATCGGCCAG	TGTATGGCCC	ACACCATCTG	13440
TAAGAAGGAT	GAGGCTTATT	TCAAGTCTAT	GGCCCAGGAG	GTGTCTGATT	TTCTGAAAGG	13500
TCAGGATGAC	AAAATCATCG	ATGATCTCAA	GAGTAAAATG	GCAGTAGCAG	CACAAAGTAT	13560
GGAGTTTGAA	CCTCCGCCG	AATACCGTGA	CCTGATTCAG	GCTATTGGAA	CGCTTCGAAC	13620
CAAGCAACGG	GTCATGGCGA	AAGATTTGCA	AAATCGCGAT	GTCTTTGGCT	ACTATGTGGA	13680
TAAGGGCTGG	ATGTGTGTGC	AGGTTTTCTT	TGTCCGTCAG	GLAAGCTCAT	CGAGCGCGAT	13740
GTCAATCTCT	TCCCCTACTT	CAATGATCCA	GATGAGGATT	TTTTGACCTA	TGTAGGACAA	13800
TTCTATCAAG	AAAAATCTCA	TCTAGTTCCC	AATGAGGTAC	TGATTCCGCA	GATATTGACG	13860
AAGAAGCTGT	CAAGGCTTTG	GTGGATTCCA	AGATTCTTAA	GCCTCAACGT	GGAGAGAAAA	13920
AACAACTGGT	CAATCTAGCC	ATAAAAAATG	CTCGTGTTAG	TCTAGAGCAG	AAGTTCAATC	13980
TGCTAGAAAA	ATCTGTCGAA	AAGACTCAAG	GAGCTATTGA	AAATCTAGGG	CGTTTGCTCC	14040
AAATCCCGAC	CCCAGTACGT	ATCGAGTCCT	TCGATAACTC	TAATATCATG	GGAACTAGCC	14100
CTGTTTCGGC	TATGGTGGTC	TTTGTCAACG	GTAAACCGAG	TAAGAAGGAT	TACCGTAAGT	14160
ACAAGATAAA	AACGGTTGTT	GGACCAGACG	ACTATGCCAG	CATGAGAGAG	GTCATTCGCA	14220
GACGCTATGG	TCGAGTACAG	CGTGAGGCTT	TGACTCCTCC	AGATTTGATT	GTGATTGATG	14280
GGGGGCAAGG	TCAAGTCAAT	ATCGCTAAGC	AGGTTATCCA	AGAGGAACTG	GGCTTGGATA	14340
TTCCAATTGC	TGGGCTGCAA	AAGAATGATA	AGCACCAAAC	CCATGAATTG	CTCTTTGGAG	14400
ATCCGCTTGA	GGTGGTGGAT	TTGTCTCGCA	ATTCTCAGGA	ATTTTTCCTC	CTCCAACGCA	14460
TCCAAGATGA	GGTGCACCGC	TTTGCTATCA	CTTTCCACCG	CCAACTGCGC	TCCAAAAATT	14520
CTTTCTCATC	TCAATTGGAT	GGGATTGACG	GTCTGGGACC	TAAACGCAAG	CAGAATCTTA	14580
TGAAGCATTT	CAAGTCTTTG	ACCAAAATCA	AGGAAGCCAG	TGTGGATGAG	ATTGTCGAAG	14640
TTGGGGTACC	TAGAGTCGTT	GCAGAGGCTG	TGCAAAGAAA	GTTGAACCCG	CAGGGAGAAG	14700
CCTTGCCTCA	AGTAGCAGAA	GAAAGAGTAG	ATTACCAAAC	GGAAGGAAAC	CACAATGAAC	14760
CATAAAATCG	CAATTTTATC	AGATGTTCAT	GGCAATGCGA	CGGCGCTAGA	AGCAGTGATT	14820
GCAGATGCTA	AAAATCAAGG	GGCCAGTGAA	TATTGGCTTC	TGGGAGATAT	TTTTCTTCCT	14880
GGTCCAGGCG	CAAATGACTT	AGTCGCCCTG	CTAAAGGACC	TTCCTATCAC	AGCAAGTGTT	14940

CG	AGGCAATT	GGGATGATCG	TGTCCTTGAG	GCTTTAGATG	GGCAATATGG	CTTAGAAGAC	15000
CC	ACAGGAAG	TTCAGCTCTT	GCGTATGACA	CAGTATTTGA	TGGAGCGAAT	GGATCCTGCA	15060
AC	GATTGTCT	GGCTACGAAG	CTTGCCTTTG	CTGGAAAAGA	AAGAAATTGA	CGGATTGCGC	15120
TT	TTCTATCT	CTCATAATTT	ACCTGACAAA	AACTATGGTG	GTGACTTGCT	AGTTGAGAAT	15180
GA	TACAGAGA	AATTTGACCA	ACTGCTAGAT	GCGGAAACGG	ACGTGGCAGT	TTATGGTCAT	15240
GT	TCACAAGC	AGTTGCTTCG	TTATGGAAGT	CAAGGGCAAC	AAATCATCAA	TCCAGGGTCG	15300
AT	TGGCATGC	CCTATTTTAA	TTGGGAGGCG	TTAAAAAATC	ACCGTTCCCA	GTATGCCGTG	15360
ΑT	AGAAGTTG	AAGATGGGGA	ATTACTCAAT	ATCCAATTTC	GTAAAGTTGC	TTATGATTAC	15420
GΑ	AGCTGAGT	TAGAATTGGC	CAAGTCCAAG	GGGCTTCCCT	ттатссааат	GTATGAAGAA	15480
CT	<b>GCGTCGT</b> G	ACGATAACTA	TCAGGGGCAC	AATCTGGAAT	TATTAGCCAG	CTTAATAGAA	15540
AA	GCATGGGT	ATGTAGAGGA	TGTGAAGAAT	TTTTTTGATT	TTTTGTAAGA	GTTTCCTAAA	15600
ΑT	AGCCAATG	CAAACTAAAA	AAGCGATTTG	CTGGTCCAAT	CGCTTTTAGT	АТАТСТТАТА	15660
CT	CAATGAAA	ATCAAAGAGC	AAACTAGGAA	GCTAGCCGTA	GGTTGCTCAA	AGCACAGCTT	15720
TG	AGGTTGCA	GATAAAGCTG	ACGTGGTTTG	AAGAGATTTT	CGAAGAGTGT	TATTGTAACT	15780
GA	GATTGATC	TGGGAGGTAA	GAACCACCTA	GATAGGTATT	GCTGAGTTTT	TCAAGGGTTC	15840
CG	TCTTGATA	GAGTTCTTTG	AGCGCTTTAT	CAAATTGCTC	TTTAAACTCT	TTTTGGTCGC	15900
тт	GAGAAAAT	GATATAATTG	CTGGGGCTAT	CTGCAGAAGG	TAAATCAACG	ACTGAGAGGT	15960
CT	AAACCACG	GTCCTTGATA	ATCTTTTGAA	CGGATACCTT	GTCAAAAACT	AGGAAATCAA	16020
AC	TCTCCGTT	AGCAAGGTCT	AGGATTCGTT	TACCAATATC	CTCACCAGAA	AAATTAATTG	16080
TA	GCGGGATT	ATCAGTGTGT	TTCTGATTCC	AGTTATTGAT	GAATTGAGCG	TTAGAAGTTC	16140
CG	GTATCCTC	TTGTGTTGTT	TTACCAGCGA	TCTGGTCAAG	AGAAGTCAAA	GGATTTTTCT	16200
TG	TTGCTGAC	AAGGACGAGG	GGATTGTTGG	AAATTGGAAG	CGAGTAAAGG	TATTTTCAG	16260
CA	CGCTCTTT	TGTGTAACTC	AAGTTATTGG	CCGCAGCCTG	ATAGTGACCA	GAATCAAGTC	16320
CT	GGGAAGAT	GCTCTCCCAG	GCGGTTCTTT	GGAATTGAAT	CTCGTAGTCG	CTGAGTTTTT	16380
CA	TCTACTGC	CTTTAAAACT	TCGATATCAA	AGCCTGTCAG	ATTGCCCTTG	TCTTCGTAGT	16440
CA	AATGGTGG	CACGTCGCCA	GCTGTAGCAA	GGACGATTGT	CTTTTGAGCG	CTAGTCTCTT	16500
TG	GGTGTAGC	TTGATTCTCA	CAGGCAACCA	AAAATGGTAG	GATAGCTAGT	AATAGGCTAA	16560
ΑT	TTTTTCAT	ACTGTCTCCA	TTCAAATGTA	AAG			16593

<sup>(2)</sup> INFORMATION FOR SEQ ID NO: 53:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 3510 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 53:

GGGATATCCT	TATATCCTTG	TTCCTGGAAC	CATTGTGGGA	ATTGCTCAAC	AGTTTTTCA	60
CCTTGAATTC	CTGGTGCAAT	GACAGTAAGA	ATTTCGAAAT	CACGATCTGG	TTTCGCCGCT	120
AGTTCCATCA	ACTCTGGCAT	ACTTTTCTTG	CATGGACCAC	ACCATGAAGC	CCAAAACTTC	180
AAGTAAACCT	TTTTACCCTT	AAAATCAGAT	AACTTAACTT	CTTTGCCATC	CATGGATTGC	240
AATGTGAAGT	CTGGAGCATC	TTTTCCAACA	GCAATTTGTT	GTACAGTCGT	TTGTTGTTTT	300
GGCTGTTGTG	CTGCTTGAGT	CTTTTTAGTT	TCTTCCTCAC	CACAGGCCAT	CAATACAACT	360
AATGACAAGA	GACTTAAGCC	AGCAAACATT	ACTTTTTTCA	TTTGTCCTCC	TTTATTCAAA	420
AATTCCAGCT	AGAACATTTA	CTTGTCCTAA	TAGTAACAAA	ATTCCCATTA	AAACAATGAG	480
GAAACCACCA	ATTTTCTTTA	GTAGCATCAT	ATGACGCTTG	ATTTTACTAA	AATATGGCAT	540
GACTAGACCT	GAAGCTAGTG	CCAATACCAA	GAAAGGAAGG	GCCATGCCaG	AGTGTAAATG	600
AGAGTATAAA	TCGCTCCTTG	CCAAGCGCCA	TTGCCTCCAG	AAGCCGCAAG	TGCTAAAACA	660
GAACTTAAAA	CTGGACCAAT	ACAAGGTGTC	CAACCAAAGC	TAAAGGTAAT	ACCAAGTAAA	720
AAAGCTGACC	AATAACGATT	AGAATCTGAT	TTTTTAAAGG	TAAAACTTTT	TTGAACTTCT	780
AATTTCTTCA	AATGAAAAAT	TTCCATCTGG	TGAAGACCCA	AAATGATAAT	AATAGCTCCC	840
ATGCCATATC.	GAAACCAATT	TGCATAGAGA	ATATGACCAA	AGTAACCAGC	ACCAAAGCCT	900
AGAATAAAGA	AAATGAGAGA	GATACCAGCG	ATAAAGCAAA	GTGTTCGAAT	CAAGCCTGAC	960
CAGAGAACCT	TTCTCCCAAA	CAAAGAAAAG	CTTTTTGCAC	TTTCTTGATC	ATCCAATAAA	1020
ATCCCAGCAT	AGACTGGCAG	AAGAGGAAAA	ATACAAGGAG	AAAAAAAGGA	TAAAACACCT	1080
GCTAGAAAAA	CAGAGATTAA	AAATACTATC	GTTTCCAATA	AAGAACCAAC	ТТТСТТААТА	. 1140
ATTCTAATCC	TATTTTACTA	TATTCAATTT	TATTTGTAAG	CTTTCTGCTA	CGCAAAATCG	1200
TATCGGGCAC	TATTGGACCA	ATCTTTTCTT	TTGCTAGTCA	AGGCGGATCT	TATCCCCAA	1260
AATAGCCAAA	AAGCAACGAC	AAGGATTACT	CATCGCTGCT	TTTGTGAACG	AAAATGTCTT	1320
TTAGGTCTGA	CATTTCATAA	ATCATGTTTT	ACTTGAGTTT	GTCAAGGATT	GCTTTAAGCT	1380
CCTCTACTAG	TTTAGTTTCT	GTCTCTGCTG	AGCCATTTTC	TTCTTTCACG	AAATCAAGGG	1440
TTTCTTGGAG	AAGGTTTTGG	GCTTTGGCAA	GGACTTTTTT	ATCCGCTTTT	TCTGCATCTA	1500

GCTGTCCTAG	AACCTTGATC	AATTCCGTGC	TTAATTGCTG	GATTTCTGAC	TCTTTCTTAC	1560
GGCGAATCAG	CCAGAAGGCA	ATCACGCCTA	GGAGGGCAAG	TAGACTGACC	ACAATCACTC	1620
CTGCCGGAAC	TGAGTTTGTT	TCAGTCATCT	TATCTGAATC	CTTACTATCT	TCCGTTCCTT	1680
GTTTTGCATC	CTTCTTGTCC	TGTGCAGGCT	TGCTGTCGCT	AGCATTTGCT	TTCACATCTT	1740
TGAGAGAGTC	CAAGGCAGCC	CAGCCTTCAC	AGACTCTACT	GCAGTATGCA	GACCTTACTC	1800
TGTCAAGGCA	CTATCTTCCG	GAGCTTTTTG	AGCATCTAGG	AGGACAGCCT	TGGTTGCATC	1860
GATTTTCGGA	TCAGATACTG	TTGCCAAAGC	TTTCAAGCGT	TGGTCTAACT	CTTGACTCAA	1920
GGCACGAAGT	TCAGACTTGT	CAACTTGCTC	TTGAGCTTGT	GTGCTCGTTG	AGCTAGCCGA	1980
AGCGCTTGCT	ACCACTCTAG	GATCTTGAGT	CGGAGCTGAG	CTTGGAGCTG	GGACAGGGCT	2040
TGCAGGTTGA	CTAGGAACAG	TTATGGTATA	TTGAAACTAG	AATAGTACAT	ATGGACTTCT	2100
AAAACATTGT	TAGAATTCGA	TTTTACTGTC	CTGATCGATT	TGTCCTATTC	TTATTTCATT	2160
ттастатаат	AACCGATGGT	GTGGTTAATG	TTGGTAAGAG	AAACTTCTGA	AACCAAGCTT	2220
CAAAAAAGTC	GCTCGTCATC	GTCTCTTCGT	AAGTCATTGG	AGCGATTAAT	TCACCATTTG	2280
TTAGACCTGC	AACCAAAGAA	ATCCTCTGAT	ATCTTCTTCC	AGATACTTTG	ССТСТТАТТА	2340
ACTGACCTTT	TAATGAGCGA	CCATATTCTC	GATAAAAATA	AGTATCGAAT	CCTGTTTCGT	2400
CAATCTAAAC	AGGTGCTAGG	TGCTTTAAAC	TATTAAAATT	CTTAAGAAAT	AAGGCTACTT	2460
TTTCTGGGTC	TTGTTCATAG	TAGGTGTGGT	TCTTTTTTC	GAGTGTAGCC	CATAGCTTTG	2520
AGCGCATAGT	GGATGGTAGT	TGGATGACAG	CCAAAkTCAG	AAGCTATTTC	AGTCAAATAA	2580
GCTTCTGGAT	TGTCAGTAAG	ATAGTTTTTA	AGTCTATCTC	TATCAACTTT	TCTTGGTTTT	2640
GTTCCTTTTA	CTTGGTGGTT	TAGCTCTCCT	GTTTTCTCTT	TTAGCTTTAA	CCAGCCATAA	2700
ATGGTATTAC	GTGAGATTTG	GAAAACGTGT	GATGCTTCTG	TTATACTACC	TATTCGCTCA	2760
CAATAAGAGA	GAACTTTTTT	ACGAAAATCT	ATTGAATATG	CCATAAGAAG	ATTATACCAC	2820
ATTGTGTACT	ATTTTTGGTT	CATTTCACTA	TAACACAAAA	TAGÀTTATTA	TTACATAACA	2880
AAAAAGAGGT	CTAAACCTCT	TAACTCAATT	ACTCCGCCAG	TAGGACTCGA	ACCTACGACA	2940
TCATGATTAA	CAGTCATGCG	CTACTACCAA	CTGAGCTATG	GCGGATTAAA	GCTAAGCGAC	3000
TTCCCTATCT	CACAGGGGGC	AACCCCCAAC	TACTTCCGGC	GTTCTAGGGC	TTAACTTCTG	3060
TGTTCGGCAT	GGGTACAGGT	GTATCTCCTA	GGCTATCGTC	ACTTAACTCT	GAGTAATACC	3120
ТАСТСААААТ	TGAATATCTA	TTCAATTTAA	GAAAACCGTT	CGCTTTCATA	TTCTCAGTTA	3180
CTTTGGATAA	GTCCTCGAGC	TATTAGTATT	AGTCCGCTAC	ATGTGTCGCC	ACACTTCCAC	3240

478 TTCTAACCTA TCTACCTGAT CATCTCTCAG GGCTCTTACT GATATATAAT CATGGGAAAT 3300 CTCATCTTGA GGTGGKTtCA CACTTAGATG CTTTCAGCGT TTATCCCTTC CCTACATAGC 3360 TACCCAGCGA TGCCTTTGGC AAGACAACTG GTACACCAGC GGTAAGTCCA CTCTGGTCCT 3420 CTCGTACTAG GAGCAGATCC TCTCAAATTT CCTACGCCCG CGACGGATAG GGACCGAACT 3480 GTCTCACGAC GTTCTGAACC CAGCTCGCGT 3510 (2) INFORMATION FOR SEQ ID NO: 54:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 20986 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 54:

CGGAGAAAAA CATGGCTAAG TCAAACTTTG AAAAAGTAGA ATCAGTTGTT GGCTGGGTTC 60 GTGATAAGAA AATCACAGGC TACCGTATCT CTAAAGAAAC GAATGCGCGT GAAATGTCTA 120 TCATTGCTCT GGCGCAGGGT CGTGCAAAAG TAAAAAATAT TTCATTTGAA ACAGCCCTAG 180 GCCTAATTGA TTTCTATGAA AAAAATTATG AAAAATTTGA AGATTAATCT TTGGATAACG 240 GCGGATTCTT GACCTTCAAG TAGTAGAGAT AGAGAATCTG CCTTTTCATT TTGAGGACAG 300 CAAAAAGACT GCACGGTTGA TGCAGCCTTT TCTTTTTATT TGAGATAGCG TTGAAGGAAC 360 TCTTTGTTC GGTCTTCTTT AGGATTGGTG AAGAGGTCTT CTGGTTTACC TTCTTCAGCG 420 ATCACGCCCT TATCCATAAA GATAACACGG TGAGAGACAT CACGGGCAAA TTCCATTTCA 480 TGGGTTACGA CAATCATGGT CAAGCCTTCC TGAGCCAGGT CCTGCATGAT TTTGAGGACT 540 TCTCCAACCA TTTCTGGATC GAGAGCTGAT GTTGGTTCAT CAAAGAGAAT AGCGTCCGGA 600 TTCATGGAGA GGGCACGAGC GATGGCCACA CGTTGTTTTT GACCACCTGA GAGTTGTTTT 660 GGTTTGGCTT GCCAGTAGCG TTCTCCCATG CCGACCTTTT CCAGGTTTTC TTTGGCAATC 720 TTTTCAGCTT CTGTGCGTTC GCGTTTTAGG ACAGTTGTCT GAGCGACGAT TGTGTTTTCA 780 AGAACATTGA GATTTTCAAA GAGGTTAAAG GATTGGAAAA CCATCCCCAA CTTTTCACGG 840 TATTGCGTGA GGTCATAGCC TTTTTCGAGG ACGTTTTGTC CATGATAAAG GATTTGTCCA 900 TCAGTTGGTG TTTCAAGTAG GTTAATGGAG CGTAGGAAGG TCGATTTTCC GCTTCCAGAG 960 CTTCCGATGA TAGAGATGAC CTCTCCCTTG TGGACAGTGA GTGAAATGTC TTTTAGCACT 1020 TCGTTTTGTC CATAGGATTT TTTGAGGTGT TTAATTTCAA GGATTGCTTG TGTCATTATT 1080 TCAAATCCTC CGTTTGCATT TGGTTAGCAC CTGTAGTGTA GGTATCCATG TCCATTCTGC 1140

GCTCGATAAA	GCGTAGGATA	CGTGTTACGG	TGAAGGTGAG	GACAAAGTAA	ATCACGGCGA	1200
TGATTGTAAA	TGTCTGGAAG	TATTGATAGG	TTTGTGTTGC	CACGGTATTT	CCTGAGAAAT	1260
AAAGTTCGAC	AACAGAGATA	ACGTTCAATA	CAGATGTATC	TTTGATATTG	ATGACAAATT	1320
CATTACCAGT	TGCAGGTAGG	ATGTTACGGA	CTACCTGAGG	TAGGACAATC	TTACGCATGG	1380
TCTGGTTATG	GGTCATACCA	AGAGCAGTCG	CAGCTTCAAA	TTGTCCCTTG	TCAACTGCTA	1440
GGATACCACC	ACGGACGATT	TCAGTCATGT	AGGCACCGGT	ATTGATTGAA	ACGATGAAGA	1500
TAGCAGCCAG	TGTACGGTCA	AGGTTGATCC	CGAAAGCTTG	GGCAGTTCCA	TAGTAGATAA	1560
CCATCGATTG	AACAATCATT	GGCGTACCAC	GGAAAATTTC	AATGTAGACA	TTGAGAACCC	1620
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AGACACCAAT	GGCAAGTCCA	ATAATGAGAC	CTATGATGGT	TCCGACGATA	GAGATTAAAA	1740
GAGTGATACC	AGCACCACGC	AAGAGTTGTT	GCCAGTTTTC	AGAAAGAATT	TTAGCAACTT	1800
GGCTAAAGAA	ACTACTGCTA	GTCTCTTCAG	TTGTTGTAGC	TTCGGCAGGT	TGTTCCTTGA	1860
TCATACGATC	CATCAAGGCA	ACTTGGTCAT	CTTTTGAAAT	GGTTTCAATG	CTGGCATTGA	1920
TTTGGCTAAT	ACGATTGTCA	TTTTTACGAA	GCCCGATAGC	GATAGCTGTA	TCTTCTTCCC	1980
CAGTTTTGAA	ACCAGGTTCT	ACTTGAATCA	TCTTGAACTT	AGAGTTCGCA	GCTTCAGCAG	2040
TCAGTGCTTC	TGGACGTTCA	GAAACATAAG	CATCAATGAC	ACCAGCCTCA	AGAGCTTGTC	2100
GCATTTGAGC	GAAGTCTCCC	ATGGCTGTTT	CTTTTTTAGC	ACCTGGGATT	TGTGCAATCA	2160
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ATTTAGCACT	TGCGTAGGCA	GAATCTTTTT	TGACAAGCAA	AACTGGTTCG	CTAGTATAGT	2280
AACTGCTCGA	AAAGGCAATT	TCTTGTTTGC	GTTCTGCAGT	TGGACTCATA	CCTGCGATAA	2340
TCATGTCAAT	CTTACCAGAA	GTAAGGGCAG	GGACTAGACC	TTCCCACTTG	GTTTTAACAA	2400
CCAAAGGTTC	TTTACCTAAG	TCCTTAGCGA	TTTTCTTGGC	GATTTGAACA	TCGTATCCGT	2460
TGGCATACTG	ATTGGTCCCA	TCGATTTTGA	CAGCTCCGTT	GCTATCATCA	TCCTGGGTCC	2520
AGTTAAAGGG	AGCATATGCT	GCTTCCATAC	CGATGCGTAA	ATATTCATCG	GCTTGAGCAA	2580
CATTGACAAG	TCCTAGCATC	AGCAAGAGAC	TTGTGAAAAT	AGATAAGTAy	ATGTGGCTCA	2640
TGATTTCTCC	TATTCTGATC	TATTAAAAAA	TAACTGTCTC	CTATTTTATC	GAAAAATGCG	2700
TAATTTTTCA	ACATAAGTAA	GTCTTTACTT	ACGAAAAAAT	GCTATAATGA	TAAGAAAGAT	2760
AAAAAGGGGG	CTTAGTTGAT	GAAAAAAACT	TTTTTCTTAC	TGGTGTTAGG	CTTGTTTTGC	2820
CTTCTTCCAC	TCTCTGTTTT	TGCCATTGAT	TTCAAGATAA	ACTCTTATCA	AGGGGATTTG	2880

				480	•		
	TATATTCATG	CAGACAATAC	GGCAGAGTTT	AGACAGAAGA	TAGTTTACCA	GTTTGAGGAG	2946
	GACTTTAAGG	GCCAAATCGT	GGGACTTGGA	CGTGCTGGTA	AGATGCCTAG	CGGGTTTGAC	3000
	ATTGACCCTC	ATCCAAAGAT	TCAGGCCGCG	AAAAACGGTG	CAGAACTAGC	AGATGTGACT	3060
	AGCGAAGTAA	CAGAAGAAGC	GGATGGTTAT	ACTGTGAGAG	TCTATAATCC	AGGTCAGGAG	3120
	GGCGACATAG	TTGAAGTTGA	CCTCGTCTGG	AACTTAAAAA	ATTTACTTTT	CCTTTATGAT	3180
	GATATCGCTG	AATTAAATTG	GCAACCTCTG	ACAGATAGTT	CAGAGTCTAT	TGAAAAGTTT	3240
	GAATTTCATG	TAAGGGGAGA	CAAGGGGGCT	GAAAAACTCT	TTTTCCATAC	AGGGAAACTT	3300
	TTTAGAGAGG	GAACGATTGA	AAAGAGTAAC	CTTGATTATA	CTATCCGTTT	AGACAATCTT	3360
	CCGGCTAAGC	GTGGAGTTGA	GTTGCATGCC	TATTGGCCTC	GGACCGATTT	TGCTAGCGCT	3420
	AGGGATCAGG	GATTGAAAGG	GAATCGTTTA	GAAGAGTTTA	ATAAGATAGA	AGACTCGATT	3480
	GTTAGAGAAA	AAGATCAGAG	TAAACAACTC	GTTACTTGGG	TCCTCCCTTC	GATCCTTTCC	3540
	ATCTCCTTGT	TATTGAGTGT	CTGCTTCTAT	тттатттата	GAAGAAAGAC	CACTCCTTCA	3600
	GTCAAATATG	CCAAAAATCA	TCGTCTCTAT	GAACCACCAA	TGGAATTAGA	GCCTATGGTT	3660
	TTATCAGAAG	CAGTCTACTC	GACCTCCTTG	GAGGAAGTGA	GTCCCTTGGT	CAAGGGAGCT	3720
	GGAAAATTCA	CCTTTGATCA	ACTTATTCAA	GCTACCTTGC	TAGATGTGAT	AGACCGTGGG	3780
	AATGTCTCTA	TCATTTCAGA	AGGAGATGCA	GTTGGTTTGA	GGCTAGTAAA	AGAAGATGGT	3840
	TTGTCAAGCT	TTGAGAAAGA	CTGCCTAAAT	CTAGCTTTTT	CAGGTAAAAA	AGAAGAAACT	3900
	CTTTCCAATT	TGTTTGCGGA	TTACAAGGTA	TCTGATAGTC	TTTATCGTAG	AGCCAAAGTT	3960
	TCTGATGAAA	AACGGATTCA	AGCAAGAGGG	CTTCAACTCA	AATCTTCTTT	TGAAGAGGTA	4020
	TTGAACCAGA	TGCAAGAAGG	AGTGAGAAAA	CGAGTTTCCT	TCTGGGGGCT	CCCAGATTAT	4080
	TATCGTCCTT	TAACTGGTGG	GGAAAAGGCC	TTGCAAGTGG	GTATGGGTGC	CTTGACTATC	4140
	CTGCCCCTAT	TTATCGGATT	TGGTTTGTTC	TTGTACAGTT	TAGACGTTCA	TGGCTATCTT	4200
	TACCTCCCTT	TGCCAATACT	TGGTTTTCTA	GGGTTAGTTT	TGTCTGTTTT	CTATTATTGG	4260
	AAGCTTCGAC	TAGATAATCG	TGATGGTGTT	CTAAATGAAG	CGGGAGCTGA	GGTCTACTAT	4320
	CTCTGGACCA	GTTTTGAAAA	TATGTTGCGT	GAGATTGCAC	GATTGGATCA	GGCTGAACTG	4380
	GAAAGTATTG	TGGTCTGGAA	TCGCCTCTTG	GTCTATGCGA	CCTTATTTGG	CTATGCGGAC	4440
	AAGGTTAGTC	ATTTGATGAA	GGTTCATCAG	ATTCAAGTGG	AAAATCCAGA	TATCAATCTC	4500
	TATGTAGCTT	ATGGCTGGCA	CAGTACGTTT	TATCATTCAA	CAGCACAAAT	GAGCCATTAT	4560
,	GCTAGTGTCG	CAAATACAGC	AAGCACCTAC	TCTGTATCTT	CTGGAAGTGG	AAGTTCTGGT	4620
,	GGTGGCTTCT	CTGGAGGCGG	AGGTGGCGGC	AGTATCGGTG	CCTTTTAAAG	AGAGCTACCA	4680

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ATAGTTTTAT	CTAAACTATT	TCTTATTTCA	ATTTGATGAT	TTGGCGATGA	TTTTAGAGCA	4800
CGGCAAAAAG	CCCTTGAAAA	AGTCCATTTT	TTCAAAGGTA	ATCCTGTGTT	AATTTCAGAA	4860
ATTACATCAC	TTTTTGTTCG	TCAAATGGCA	GCTCTTTTTT	AGGATATAAA	ACAGGGTTCG	4920
GATAAGTTTT	TTTGCAAGGT	GGATGATGGC	TACATTGTAA	TGTTTTCCTT	ATTCTAACTT	4980
AGTCTTAAGA	TAGGCCTTAG	AAGCAGGTGA	AAAGCGAGGG	CATGCTTTGG	CAGCTTGTAT	5040
GAGTGCCCAC	CGCAGATGAG	GGGAACCCCG	TTTGACCATT	CTTCCAGCTA	AATCAATCTG	5100
ACCTGACTGA	TAAATAGAAG	AATCCAGTCC	AGCGAAAGCT	TGTAATTGAG	CAGGATTATC	5160
AAAGGCATGA	ATATTTCGAA	TCTCGGCTAA	AATGACCGCC	CTAAACGATC	CCCAATCCCA	5220
GTAACCGTCG	TGATGACCGA	GTTGAACTCA	GCCATCGAGT	CATTGATACA	TGTTTCCGCC	5280
TTGTCAATGA	GCCTCTTGTA	ATGCTTGATG	ATTTCGAATT	CACGAGCAGG	AGATGTTGTT	5340
CCGATAGAAC	GAGGTGCGAC	TGAGAGGATA	TCCTGAATTT	TAGAAGCGGT	CAATCGCTTA	5400
ATTTCTATCA	GCTTATCAAA	TCCTGCCTCA	ATCCTTTTCT	GAGGATTAGG	GTAGCGTGTC	5460
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TATGTCTAGC	CAGTATTTTT	AGGTCTACTT	GCCGATTATC	GTGTTGAAAT	TGTTCACGAT	5640
TGGGGTCAGA	AAGAAGTTTA	AGAGCGATGC	CATGAGCGTC	TTTCTTATCC	GTTTTAGTCT	5700
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GAGCGATGAG	ACAGTCTTGG	TTGATCTGTC	GAATAGACAG	ATCTAAGAGT	TCAAAACCAG	5880
CTTTATTATT	TGAAAAAGTG	agtggtttaa	GAACAGTTTT	TCCTGGAACA	TTCAAGGCTG	5940
PAACATCGTG	TTTATTTTTA	GCGATATCAA	TGCCTACATA	AAGCATGGGA	GTACCTCCAG	6000
ATATAGTATT	TCAAGTCTAC	TTGGTTATCC	ACGAATTTTT	TGCCTTGTTA	CCTTAGACGA	6060
GATCAAACGT	CTATGCGTTA	TCAAACTCAT	TACCAATTGA	AACAAAAGCT	GTGGTTAGAG	6120
CCTTTCGGAA	ATCGTCAAGC	GATTGGAGGA	AATGAACTAA	TCCATAGTGG	CTTATTCCAA	6180
GTATACCACT	TGGGCTTTGG	CAGTAGCTAA	CTGCGCTAAA	TATAATATAG	GGAGTAATCT	6240
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rggttgccga	TTTCCAGTAC	AGGTCACTTG	ATTTTAGCAG	AGGAATTCAT	CCAATACCAA	6360
AATCAAAATC	AAGCC ጥጥ TAT	GTCCATGTT	ልልጥርጥርርጥርል	<b>ጥጥሮ አርርጥጥ</b> ርር	ጥርር ጥን መመካካ	6420

			482			
GCAGTTATGG	TGATTTATTT	TAACAAGCTC	AATCCTTTTA	AACCGACCAA	GGACAAACAG	648
GAAGTTCGTA	AGACTTGGAG	ACTATGGTTG	AAGGTCTTGA	TTGCTACTTT	ACCTTTACTT	654
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GCTATCGAGC	CAAGTGTAAC	AGAGTTGGAC	AAGCTTCCTT	ATACGACCGC	TTTCTATATC	672
GGACTCTTCC	AAGTTCTTGC	TCTTTTACCA	GGGACTAGCC	GTTCAGGTGC	AACGATTGTC	678
GGTGGTTTGT	TAAATGGAAC	CAGTCGTTCA	GTTGTGACAG	AATTTACCTT	CTATCTTGGG	684
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CTCTTGAGCT	TTGGGCAATT	GTTTTTGCTC	TTGGTCGCGA	TGGGAGTAGC	TTTTGCGGTC	696
AGCATGGTGG	CTATTCGCTT	CTTGACCAGC	TATGTGAAAA	AACACGACTT	CACCCTTTTT	702
GGTAAATACC	GTATCGTGCT	TGGTAGTGTT	TTGCTACTTT	ACAGTTTTGT	CCGTTTATTT	708
GTATAAGAAA	AACCTTGAAG	GGGCAACTCT	TCAAGGTTTT	ATACTCTTCG	AAAATCTCTT	714
CAAACCGCGT	CAGCTTTATC	TGCAACCTCA	AAACAGTGTT	TTGAGCAGCn	CTGCGGCTAG	720
CCTCCTAGTT	TGCTCTTTGA	TTTTCATTGA	GCTTTAAAAT	CCAGTCATGG	TAATCCCCAA	7260
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AAAATCCTCA	GCCTGTTCAG	GTAGAATCAC	TGTCAAACCA	TGTGGTTTTT	GATAATCACT	7800
CGCCATTTTA	GCTAAGAATT	TGTTGTAAGA	AACGCCTGCG	GAAGCAGTTA	GATGGAGTTC	7860
TTGCCAGATA	TCTTTTTGAA	TGAGGCGAGC	AATTTTGACC	GCTGACTTGA	TACCGAGTTT	7920
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GCGCTTAAAA	ATAGCTCGAA	TCTGGAGTCC	CACAGACTTG	TATTTCTCAT	AATTCCCTGA	8040
GATAAAGACA	GCCTGGGGAC	AACGTTCATA	AGCTTCCTTG	GAACTCATGG	CAGAATGGAC	8100
ACCAAAAGCT	CTTGCCTCAT	AACTACAGGT	AGAAACGACT	CCCCGTCCAC	CTGTTTGCCG	8160
AGGGTCGCTT	CCAATAATGA	CAGGTTTTCC	TCTGAGTTTA	GGATTATCCC	TGATTTCCAC	8220

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CAGCTCTATm	TGCAACCTCA	AAACAGTGTT	TTGAGCAATC	TGCGGCTAGC	TTCCTAGTTT	8400
GCTTTTCGAT	TTCCATTGAG	TGTTACTGCT	TATTYTCTTT	TATTATACCC	TTTTTTCTGA	8460
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TATGGTATAC	TTGTCTTATG	AATGTAACAG	ATGACTGTTA	CTAGAAAAA	GAGGACATTA	8640
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TCAAAGGCGT	AGATTGGAAA	GAAAAAGCAA	GTGTATCACG	ATTTGTACAA	GCTAACTACA	8760
CACCTTATGA	TGGAGACGAA	AGCTTCCTTG	CAGGACCAAC	AGAGCGTTCA	CTTCACATCA	8820
AGAAAATTGT	AGAAGAAACT	AAAGCACACT	ACGAAGAAAC	TCGTTTCCCA	ATGGACACTC	8880
GTCCAACATC	TATCGCTGAT	ATCCCTGCTG	GATTTATCGA	CAAAGAAAAT	GAAGTTATCT	8940
TCGGTATCCA	AAACGATGAA	CTCTTCAAAT	TGAACTTCAT	GCCAAAAGGT	GGTATCCGTA	9000
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TCATCGGTGT	TTACGCACGT	CTTGCTCTTT	ACGGTGCAGA	CTACTTGATG	CAAGAAAAAG	9240
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ATGTTCGCAA	ACCAGCGATG	AACGTGAAAG	AAGCAATCCA	ATGGGTTAAC	ATTGCTTTCA	9420
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TGGACATCTT	TGCAGAACGT	GACCTTGCTC	GTGGTACATT	TACTGAATCA	GAAATCCAAG	9540
AATTCGTTGA	TGATTTCGTT	ATGAAACTTC	GTACAGTTAA	ATTTGCTCGT	ACAAAAGCTT	9600
ATGACCAATT	GTACTCAGGT	GACCCAACCT	TTATCACAAC	TTCTATGGCT	GGTATGGGTA	9660
ACGACGGTCG	TCACCGTGTT	ACTAAGATGG	ACTACCGTTT	CTTGAACACT	CTTGACAACA	9720
TCGGTAACTC	ACCAGAACCA	AACTTGACAG	TTCTTTGGAC	TGACAAATTG	CCATACAACT	9780
TCCGTCGCTA	CTGTATGCAC	ATGAGCCACA	AACACTCTTC	TATCCAATAC	GAAGGTGTAA	9840
CAACAATGGC	TAAAGACGGA	TATGGTGAAA	TGAGCTGTAT	CTCATGCTGT	GTGTCTCCAC	9900
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TCATGTGTTG GACAATGTGG AAACGATCGA GAACAATTTT AGCATTGGGA AATAATTTCT

TAATGAGAGG GATATAACTT CCAGACATAT CAACAGTGAC GACTTTAACT TTTTTTCTAG

11700

CTTCTTTCGA	GTACTTGAAG	AAATGATTTC	GGATGGTTGT	TTGACGTCTG	TTATCAAGAA	11820
TGGTCATGAT	TTTCTTAGTG	TTGAAATCCT	GAGCAATGAA	AGCCAATTTC	CCCTTCTGGT	11880
AGGAGAATTC	ATCCCAGGAG	AGGATTTCAG	GCAAAGTGGT	GTAATCCTCT	TGGAAATGAA	11940
ATTGCTTGAG	CTTACGATAG	ACGGTAGAGG	TAGAGGTAGA	GGTAGAGATG	GCTAATTTAG	12000
AAGCGATATG	TGTAAGAGCC	TCTCTGTTGA	GTAGGAGTTG	GGCAATTTTC	TGTCTCACCA	12060
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AGGACTTGCA	TTGAAATCGT	CTCTTTTTCA	AATGAATGAG	GCTAGGGAAA	CCACCAATCT	12180
CGATAAAAGG	Gattttagaa	GGCTTTTGGA	AGTCGTATTT	GATTTGTTTT	CCTTTACAGT	12240
GTTTACATTT	AGGTGGGTGA	TAATCAAGTG	TAGCGAAGAC	TTCGATATGG	GTATCGTGCT	12300
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TGATGTGTTC	CATAAGATAC	TTTCTAATGA	GTTGTTTAGG	CGCTTTTCAT	TATAAGTCTT	12420
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AGAAATTATA	GAGCCAGAAA	AAACACTTTT	GTTCACTAGC	AGAAACTAGA	GAGCAGAAGT	12540
GTTTTTCTGT	TCAGATTTAC	CCAAAACTGG	GAAATATGGG	GATAAGAATA	GAGATGGCTT	12600
AGGAAGCCCC	TTTTTGTGTG	TAGACAGTAC	GATGAACTTA	TAACAAATAG	TGAGCCTTTT	12660
TAGCAATCAT	TGCGACCCGT	TTGTCAAAAG	CCTCTTTTCG	GATATCTACA	ATTGTCTGAT	12720
AGATGAGACG	CTGTTGGCTA	ACATGCAAAT	CTAAGGCAAT	CGTCAAAAAG	TGATGTTTCC	12780
CTTTGGGATA	CTGCTTTTTA	ACGTAAGGCA	GGTATTCTTT	CGTTGTAATA	ATAATCAATG	12840
GCTCTGTCAA	ATGCTCCTCT	GAAGGAGGAG	GACTAATTAG	AATATTGTAT	CCTGTAACAG	12900
AGGCAACTTT	GTCAGTAAAA	TTCCGTAAAA	TAATGGACTT	TATTAAGTTT	ACATCTGCTT	12960
GATTATTTAA	AATGATAAAA	ATCGGGATAG	CAGGTAGTGA	GGAAAAGATG	GTTTCTGTCA	13020
AGTAGAGTGA	GAAAAGGTAC	AGCCGATGCT	GGTCGATAAC	TCCTTCAATC	TTCTGCTCAG	13080
TCATCCACTC	TTGAACAATT	GCTTTCGAAA	TATGATACAG	TGGCTTGTCG	CTTTCAATCC	13140
CATAATGTTC	GTAATAATTA	TAATAGGGAA	CTAGATTTTG	TAAACCAAAC	AAAAACGTTC	13200
TTGTTAAGAA	AGTCAGTGCT	GTTAAAAAAG	aaagagaatt	CGAAATGTCA	TTTCCTAAGA	13260
TATTCTTGAA	CTTGGATAGT	AGATGCTTTC	CTCTTGTATG	CTGAAGAATC	AGTTGAATAG	13320
TATGAGTCTT	TTTTTCTTGA	TTCCATTTGT	CCTTGGAAAA	CGAAGAATTA	GCAGAACAAT	13380
AAACCAAAAA	GATATAATCC	AGTTCTTCCT	GAGTAAAAGT	CATGTTGGCA	TGTGGCTCTA	13440
agtaagtttg	GCAATGTTCC	ATCAAAATCG	GATACATAAA	GAGGTTTTTT	AATTTTTCAA	13500

ACTCTTTGGA CTCAGGGAAC TCAAGTGGAA ATTCCCGACG TTTCCAAGTG AGTGCCACTA 13560 GTATGCTAAA ATGAACATAC TCGTCAGGTG TGATTTCTAA CAGTTCATGA CTGAGTTGAG 13620 AATTAGACTG CACAATCATA TGTGTGACCC AATCCATACT TCCATCATTC AAATCATAAA 13680 TCTCAATACC AAAATGAAAC TGGAGGAGTG CAATTAAAAA ACGAATGCGA TATTCAGGAC 13740 CAACTACTTG ATTTTTCACA AGGTCCAAAC CTACTGAACG TAGTAACAAG CCACACTTTT 13800 GTCGTACGCG GTAGCCTGTT GCGATGGAAA TATACTCTTT TTGTGTAAAT TCGTTAAAGC 13860 TTTGATTACC TTGTAGTAGA AAGAAGCGGA GTATTTTTAA AATAGTTGAT TGGTTATAAA 13920 GCTGATGGAA GTAATAATTC GTTTGATGAG AATGGTGTTC GATTAATTGA ACTTGTTGCG 13980 TATCTAAATT AAATGTCAAC TCTTCCTCGA ATGTTTCTTG TAATTCCTGC AAAATGCTTA 14040 GGAGACTTTT AGATTGTAAT GAAGTTAAAG TAGACAGTTC ATCTAGTTCA ATAGACCGAA 14100 TATCCAATAA TATATTTAAA ATGGTAATTT TATCTGTAAT TCTTTTTCA ATGTATTTGT 14160 TTAGCATAGT TACCGAATCT TAGTTGCATA TAGATAATTT TAATTATTAT AATACAAAAG 14220 AAACTAATTG TCTTGTCAAA AAGGTTGTGG AATTTCCGAC TTTATTGATA AAACAGCATG 14280 TAATAAAAGG CATTTTAAAG ATAGTAATGA GTATTGGTGG AGTTTTATGG CTTATTTTTT 14340 TTATTAGAAA ATATTTTTT ATCAAATATT GTCGTTCTAT AAAAAAATAT GTGATAAAAA 14400 TATCTATTGT GATGGAAGTT GTTTTAATTT ATACTAGGAT AGTTAATAGT AATACTATAC 14460 TATACTATAT TGTATACAAG TGTGTCATTG CCAGGTTGAG AAGATAGCTA TAACGCACTT 14520 TTATACGCTT TTGCTACGTT TGTTAGTGAA CGGATTAACT CAGTGAGATA AATTTTATCA 14580 GAACATAAGT AATCCGTTTC TTCGTGTATA CAGATTGAAA GTACCTATGA ATCATAGAAG 14640 GATTAACTTG TTCTATGAAT AATGCTTAAC AGGGAGACAC ACATGAAAAA AGTAAGAAAG 14700 ATATTCAGA AGGCAGTTGC AGGACTGTGC TGTATATCTC AGTTGACAGC TTTTTCTTCG 14760 ATAGTTGCTT TAGCAGAAAC GCCTGAAACC AGTCCAGCGA TAGGAAAAGT AGTGATTAAG 14820 GAGACAGGCG AAGGAGGAGC GCTTCTAGGA GATGCCGTCT TTGAGTTGAA AAACAATACG 14880 GATGGCACAA CTGTTTCGCA AAGGACAGAG GCGCAAACAG GAGAAGCGAT ATTTTCAAAC 14940 ATAAAACCTG GGACATACAC CTTGACAGAA GCCCAACCTC CAGTTGGTTA TAAACCCTCT 15000 ACTAAACAAT GGACTGTTGA AGTTGAGAAG AATGGTCGGA CGACTGTCCA AGGTGAACAG 15060 GTAGAAAATC GAGAAGAGGC TCTATCTGAC CAGTATCCAC AAACAGGGAC TTATCCAGAT 15120 GTTCAAACAC CTTATCAGAT TATTAAGGTA GATGGTTCGG AAAAAAACGG ACAGCACAAG 15180 GCGTTGAATC CGAATCCATA TGAACGTGTG ATTCCAGAAG GTACACTTTC AAAGAGAATT 15240

TATCAAGTGA ATAATTTGGA TGATAACCAA TATGGAATCG AATTGACGGT TAGTGGGAAA

ACAGTGTATG	AACAAAAAGA	TAAGTCTGTG	CCGCTGGATG	TCGTTATCTT	GCTCGATAAC	15360
TCAAATAGTA	TGAGTAACAT	TCGAAACAAG	AATGCTCGAC	GTGCGGAAAG	AGCTGGTGAG	15420
GCGACACGTT	CTCTTATTGA	ТААААТТАСА	TCTGATTCAG	AAAATAGGGT	AGCGCTTGTG	15480
ACTTATGCTT	CCACTATCTT	TGATGGGACC	GAGTTTACAG	TAGAAAAAGG	GGTAGCAGAT	15540
AAAAACGGAA	AGCGATTGAA	TGATTCTCTT	TTTTGGAATT	ATGATCAGAC	GAGTTTTACA	15600
ACCAATACCA	AAGATTATAG	TTATTTAAAG	CTGACTAATG	ATAAGAATGA	CATTGTAGAA	15660
TTAAAAAATA	AGGTACCTAC	CGAGGCAGAA	GACCATGATG	GAAATAGATT	GATGTACCAA	15720
TTCGGTGCCA	CTTTTACTCA	GAAAGCTTTG	ATGAAGGCAG	ATGAGATTTT	GACACAACAA	15780
GCGAGACAAA	ATAGTCAAAA	AGTCATTTTC	CATATTACGG	ATGGTGTCCC	AACTATGTCG	15840
TATCCGATTA	ATTITAATCA	TGCTACGTTT	GCTCCATCAT	ATCAAAATCA	ACTAAATGCA	15900
TTTTTTAGTA	ААТСТССТАА	TAAAGATGGA	ATACTATTAA	GTGATTTTAT	TACGCAAGCA	15960
ACTAGTGGAG	AACATACAAT	TGTACGCGGA	GATGGGCAAA	GTTACCAGAT	GTTTACAGAT	16020
AAGACAGTTT	ATGAAAAAGG	TGCTCCTGCA	GCTTTCCCAG	TTAAACCTGA	AAAATATTCT	16080
GAAATGAAGG	CGGCTGGTTA	TGCAGTTATA	GGCGATCCAA	TTAATGGTGG	ATATATTTGG	16140
CTTAATTGGA	GAGAGAGTAT	TCTGGCTTAT	CCGTTTAATT	CTAATACTGC	TAAAATTACC	16200
AATCATGGTG	ACCCTACAAG	ATGGTACTAT	AACGGGAATA	TTGCTCCTGA	TGGGTATGAT	16260
GTCTTTACGG	TAGGTATTGG	TATTAACGGA	GATCCTGGTA	CGGATGAAGC	AACGGCTACT	16320
AGTTTTATGC	AAAGTATTTC	TAGTAAACCT	GAAAACTATA	CCAATGTTAC	TGACACGACA	16380
AAAATATTGG	AACAGTTGAA	TCGTTATTTC	CACACCATCG	TAACTGAAAA	GAAATCAATT	16440
GAGAATGGTA	CGATTACAGA	TCCGATGGGT	GAGTTAATTG	ATTTGCAATT	GGGCACAGAT	16500
GGAAGATTTG	ATCCAGCAGA	TTACACTTTA	ACTGCAAACG	ATGGTAGTCG	CTTGGAGAAT	16560
GGACAAGCTG	TAGGTGGTCC	ACAAAATGAT	GGTGGTTTGT	TAAAAAATGC	AAAAGTGCTC	16620
TATGATACGA	CTGAGAAAAG	GATTCGTGTA	ACAGGTCTGT	ACCTTGGAAC	GGATGAAAAA	16680
GTTACGTTGA	CCTACAATGT	TCGTTTGAAT	GATGAGTTTG	TAAGCAATAA	ATTTTATGAT	16740
ACCAATGGTC	GAACAACCTT	ACATCCTAAG	GAAGTAGAAC	AGAACACAGT	GCGCGACTTC	16800
CCGATTCCTA	AGATTCGTGA	TGTGCGGAAG	TATCCAGAAA	TCACAATTTC	AAAAGAGAAA	16860
AAACTTGGTG	ACATTGAGTT	TATTAAGGTC	AATAAAAATG	АТААААААСС	ACTGAGAGGT	16920
GCGGTCTTTA	GTCTTCAAAA	ACAACATCCG	GATTATCCAG	ATATTTATGG	AGCTATTGAT	16980
CAAAATGGCA	СТТАТСАААА	TGTGAGAACA	GGTGAAGATG	GTAAGTTGAC	СТТТАААААТ	17040

				488			
CTC	TCAGATG	GGAAATATCG	ATTATTTGAA	AATTCTGAAC	CAGCTGGTTA	TAAACCCGTT	17100
CAA	AATAAGC	CTATCGTTGC	CTTCCAAATA	GTAAATGGAG	AAGTCAGAGA	TGTGACTTCA	17160
ATC	GTTCCAC	AAGATATACC	AGCGGGTTAC	GAGTTTACGA	ATGATAAGCA	CTATATTACC	17220
AAT	GAACCTA	TTCCTCCAAA	GAGAGAATAT	CCTCGAACTG	GTGGTATCGG	AATGTTGCCA	17280
TTC	TATCTGA	TAGGTTGCAT	GATGATGGGA	GGAGTTCTAT	TATACACACG	GAAACATCCG	17340
TAA	AGTGTAG	AAATGATAAT	ATCTATGTTC	TGAACGATAC	TTTTAAGAAG	TAGCACTCAA	17400
GAA	GAGATTT	AAGTTTACTT	GGTGAAACCT	GTTTTATTCG	TAAGTAAACT	ATCATTGAAA	17460
GGG	GAGATGT	TTTCGAAAAC	TTGCACAGAA	AAAGGATTAT	TATTGTCATG	TGTAATTCAT	17520
TAC	ATTGCTC	ACAGTTGATT	TTAAGAGATA	TGAATAAGGA	GAAATCATGA	ААТСААТСАА	17580
CAA	ATTTTTA	ACAATGCTTG	CTGCCTTATT	ACTGACAGCG	AGTAGCCTGT	TTTCAGCTGC	17640
AAC	AGTTTTT	GCGGCTGGGA	CGACAACAAC	ATCTGTTACC	GTTCATAAAC	TATTGGCAAC	17700
AGA	TGGGGAT	ATGGATAAAA	TTGCAAATGA	GTTAGAAACA	GGTAACTATG	CTGGTAATAA	17760
AGT	GGGTGTT	CTACCTGCAA	ATGCAAAAGA	AATTGCCGGT	GTTATGTTCG	TTTGGACAAA	17820
TAC	TAATAAT	GAAATTATTG	ATGAAAATGG	CCAAACTCTA	GGAGTGAATA	TTGATCCACA	17880
AAC	AAATTTAA	CTCTCAGGGG	CAATGCCGGC	AACTGCAATG	AAAAAATTAA	CAGAAGCTGA	17940
AGG	agctaaa	TTTAACACGG	CAAATTTACC	AGCTGCTAAG	TATAAAATTT	ATGAAATTCA	18000
CAG	TTTATCA	ACTTATGTCG	GTGAAGATGG	AGCAACCTTA	ACAGGTTCTA	AAGCAGTTCC	18060
AAT	TGAAATT	GAATTACCAT	TGAACGATGT	TGTGGATGCG	CATGTGTATC	CAAAAAATAC	18120
AGA	agcaaag	CCAAAAATTG	ATAAAGATTT	CAAAGGTAAA	GCAAATCCAG	ATACACCACG	18180
TGT	AGATAAA	GATACACCTG	TGAACCACCA	AGTTGGAGAT	GTTGTAGAGT	ACGAAATTGT	18240
TAC	AAAAATT	CCAGCACTTG	CTAATTATGC	AACAGCAAAC	TGGAGCGATA	GAATGACTGA	18300
AGG	TTTGGCA	TTCAACAAAG	GTACAGTGAA	AGTAACTGTT	GATGATGTTG	CACTTGAAGC	18360
AGG	TGATTAT	GCTCTAACAG	AAGTAGCAAC	TGGTTTTGAT	TTGAAATTAA	CAGATGCTGG	18420
TTT.	AGCTAAA	GTGAATGACC	AAAACGCTGA	AAAAACTGTG	AAAATCACTT	ATTCGGCAAC	18480
ATT	GAATGAC	AAAGCAATTG	TAGAAGTACC	AGAATCTAAT	GATGTAACAT	TTAACTATGG	18540
TAA	TAATCCA	GATCACGGGA	ATACTCCAAA	GCCGAATAAG	CCAAATGAAA	ACGGCGATTT	18600
GAC.	ATTGACC	AAGACATGGG	TTGATGCTAC	AGGTGCACCA	ATTCCGGCTG	GAGCTGAAGC	18660
AAC	GTTCGAT	TTGGTTAATG	CTCAGACTGG	TAAAGTTGTA	CAAACTGTAA	CTTTGACAAC	18720
AGA	САААААТ	ACAGTTACTG	TTAACGGATT	GGATAAAAAT	ACAGAATATA	AATTCGTTGA	18780
ACG	TAGTATA	AAAGGGTATT	CAGCAGATTA	TCAAGAAATC	ACTACAGCTG	GAGAAATTGC	18840

TGTCAAGAAC	TGGAAAGACG	AAAATCCAAA	ACCACTTGAT	CCAACAGAGC	CAAAAGTTGT	18900
TACATATGGT	AAAAAGTTTG	TCAAAGTTAA	TGATAAAGAT	AATCGTTTAG	CTGGGGCAGA	18960
ATTTGTAATT	GCAAATGCTG	ATAATGCTGG	TCAATATTTA	GCACGTAAAG	CAGATAAAGT	19020
GAGTCAAGAA	GAGAAGCAGT	TGGTTGTTAC	AACAAAGGAT	GCTTTAGATA	GAGCAGTTGC	19080
TGCTTATÄAC	GCTCTTACTG	CACAACAACA	AACTCAGCAA	GAAAAAGAGA	AAGTTGACAA	19140
AGCTCAAGCT	GCTTATAATG	CTGCTGTGAT	TGCTGCCAAC	AATGCATTTG	AATGGGTGGC	19200
AGATAAGGAC	AATGAAAATG	TTGTGAAATT	AGTTTCTGAT	GCACAAGGTC	GCTTTGAAAT	19260
TACAGGCCTT	CTTGCAGGTA	CATATTACTT	AGAAGAAACA	AAACAGCCTG	CTGGTTATGC	19320
АТТАСТААСТ	AGCCGTCAGA	AATTTGAAGT	CACTGCAACT	TCTTATTCAG	CGACTGGACA	19380
AGGCATTGAG	TATACTGCTG	GTTCAGGTAA	AGATGACGCT	ACAAAAGTAG	TCAACAAAAA	19440
AATCACTATC	CCACAAACGG	GTGGTATTGG	TACAATTATC	TTTGCTGTAG	CGGGGGCTGC	19500
GATTATGGGT	ATTGCAGTGT	ACGCATATGT	TAAAAACAAC	AAAGATGAGG	ATCAACTTGC	19560
TTAAGTAAGA	GAGAAAGGAG	CCATTGATGA	CAATGCAGAA	AATGCAGAAA	ATGATTAGTC	19620
GTATCTTCTT	TGTTATGGCT	CTGTGTTTTT	CTCTTGTATG	GGGTGCACAT	GCAGTCCAAG	19680
CGCAAGAAGA	TCACACGTTG	GTCTTGCAAT	TGGAGAACTA	TCAGGAGGTG	GTTAGTCAAT	19740
TGCCATCTCG	TGATGGTÇAT	CGGTTGCAAG	TATGGAAGTT	GGATGATTCG	TATTCCTATG	19800
ATGATCGGGT	GCAAATTGTA	AGAGACTTGC	ATTCGTGGGA	TGAGAATAAA	CTTTCTTCTT	19860
TCAAAAAGAC	TTCGTTTGAG	ATGACCTTCC	TTGAGAATCA	GATTGAAGTA	TCTCATATTC	19920
CAAATGGTCT	TTACTATGTT	CGCTCTATTA	TCCAGACGGA	TGCGGTTTCT	TATCCAGCTG	19980
AATTTCTTTT	TGAAATGACA	GATCAAACGG	TAGAGCCTTT	GGTCATTGTA	GCGAAAAAA	20040
CAGATACAAT	GACAACAAAG	GTGAAGCTGA	TAAAGGTGGA	TCAAGACCAC	AATCGCTTGG	20100
AGGGTGTCGG	CTTTAAATTG	GTATCAGTAG	CAAGAGATGT	TTCTGAAAAA	GAGGTTCCCT	20160
TGATTGGAGA	ATACCGTTAC	AGTTCTTCTG	GTCAAGTAGG	GAGAACTCTC	TATACTGATA	20220
AAAATGGAGA	GATTTTTGTG	ACAAATCTTC	CTCTTGGGAA	CTATCGTTTC	AAGGAGGTGG	20280
AGCCACTGGC	AGGCTATGCT	GTTACGACGC	TGGATACGGA	TGTCCAGCTG	GTAGATCATC	20340
AGCTGGTGAC	GATTACGGTT	GTCAATCAGA	AATTACCACG	TGGCAATGTT	GACTTTATGA	20400
AGGTGGATGG	TCGGACCAAT	ACCTCTCTTC	AAGGGGCAAT	GTTCAAAGTC	ATGAAAGAAG	20460
AAAGCGGACA	CTATACTCCT	GTTCTTCAAA	ATGGTAAGGA	agtagttgta	ACATCAGGGA	20520
AAGATGGTCG	TTTCCGAGTG	GAAGGTCTAG	AGTATGGGAC	АТАСТАТТТА	TGGGAGCTCC	20580

AAGCTCCAAC TGGTTATGTT CAATTAACAT CGCCTGTTTC CTTTACAATC GGGAAAGATA 20640
CTCGTAAGGA ACTGGTAACA GTGGTTAAAA ATAACAAGCG ACCACGGATT GATGTGCCAG 20700
ATACAGGGGA AGAAACCCTT GTATATCTTG ATGCTTGTTG CCATTTTGTT GTTTGGTAGT 20760
GGTTATTGTC TTACGAAAAA ACCAAATAAC TGATATTCAA TGTACATCAT TATGAATAGG 20820
ATAGCAGGCT GAAGGGAAGA CCAGAGTACT CTGAGGTGAT GTTAATCAGG AATCATGGTG 20880
ATGTGGCATG AATCATCAAT AACGGATATG AGGCTGGCCA GATTGTGCCA GCCTCATTGT 20940
GGGTTATTGT TTGTAAAACG ATAGGACTGG TCTGGTAATC ATTTAA 20986

### (2) INFORMATION FOR SEQ ID NO: 55:

### (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 21040 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 55:

CCCAGCAAAA AGCCATCCGA AGATGACTTT TTTGCTATTT AATTTCTGTA TAAGTTACTT 60 CCAAGCCACG CTTAACAGCT GGACGATTGG CAATTTTTTC TGCCCATTTT ACTAGATTTT 120 GATAACTTGA GGCATCCAAG AATTTTGCAG AACCTTGGTA AAGATTTCCT TGAACTAACT 180 GTCCATACCA AGACCAGATA GCAATATCTG CAATCGTATA GTCATTGCCT GCAATATAAG 240 GTTTCTGAGC CAATTCCTTA TCCAATAAAT CCAACTGGCG TTTCACTTCC ATCGTAAAAC 300 GGTTAATAGG ATATTCCAAT TTTTCAGGAG CATAATTGAA GAAATGTCCA AATCCCCCAC 360 CTAGAAAAGG TGCTGCACCT GCTTGCCAGA ATAGCCAATT CAAAACTTCT ACCTTTTCCA 420 CAGGATTACT TGGTAAAAAG GCTCCAAATT TCTCAGCAAG GTAAAGAAGA ATATGAGCAG 480 ACTCAAAGAC TCTTACGTTT TCAGTACCTG ACTGGTCCAA TAAGGCTGGA ATCTTGGAAT 540 TTGGATTGAG CTTCACAAAG TCTGATCCGA ATTGATCCCC ATCCATGATA GCAATCTTAT 600 ACAAGTCGTA AGCCGCTTCC TTAAAACCAG CTTCTAGTAA TTCTTCCAAT AAGATAGTAA 660 CCTTCACACC ATTTGGTGTT CCCAGTGAAT AAAGCTGAAA AGCTTGTTCT CCTTTTGGCA 720 AGTTTTGTTC GAAACGGCA CCTGCTGTTG GTCTGTTTAG CCCCGTAAAA GCTCCTTGAT 780 TACTAGCTTC ATCCTGCCAT ACGGTCGGTA ATTGATATGC TGACATCCGA AACCTCCCTT 840 AAATCGCATT CTTGTCAAAA CCGAGTTTGC GTTGAATAAA CTTAACGATT TCGACGATGA 900 TAATCATTGA GAAGCTTCCA GCCATAACAA TTCCCCATTG TGACAAGTCT AGTTTGGTTA 960 CGTGGAAGAT TCCTTCAAGC GGTTCTACAA CGATTGTTGC CATGAGAAGG ATAAAGGATA 1020

CCAAGATGGA	CCAGTTAAAG	GTCTTAGACT	TGAATGGGCC	AACTGTCAAG	ATGGATTGGT	1080
AGACAGACTT	GACATTGTAG	GCATGGAAGA	GCTGAATCAA	ACCAAGGGTT	GCAAAGGCCA	1140
TCGTTAGGGC	ATCTGCATGA	ATAGCATGAT	TGTCACCCAC	ATGAACTGGG	TAAGCAATCG	1200
CAAGGCCATA	AACACTCATA	ACAAGAGCTG	CTTGGAGTAC	ACCTTGATAA	ATGATAGAAC	1260
TCAAAACACC	ACCTGAGAAG	AAGCTTGCCT	TGCGTCCACG	TGGTTTATGA	TTCATGACAC	1320
CAGGTTCCGC	AGGTTCAACA	CCAAGAGCGA	TAGCTGGGAA	GGTATCCGTT	ACCAAGTTGA	1380
TCCACAAAAG	ATGAACCGGC	TGTAAGACAT	CCCAACCAAA	CAAGGTTGAT	AGGAAGATGG	1440
<b>TTAATAC</b> TTC	AGCAGTATTA	GCAGAAAGTA	GGTACTGAAT	AGTCTTTTGA	ATGTTTGAGA	1500
AGACCTTACG	TCCTTCTTCC	ACTGCGACGA	TAATAGTCGC	AAAGTTATCA	TCTGCAAGAA	1560
TCATATCAGA	AGCCCCCTTA	GAAACCTCTG	TACCAGTGAT	TCCCATACCG	ATACCGATAT	1620
CGGCTGTTTT	CAGAGCTGGC	GCGTCATTGA	CACCGTCACC	TGTCATGGCA	ACGACTTTAC	1680
CTTGTTTTTG	CCAAGCCTTG	ACGATACGAA	CCTTGTGTTC	TGGAGACACA	CGGGCATAAA	1740
CAGAGTATTG	ACCAACGACT	TTTTCAAATT	CTTCATCTGA	CAGTTCATTG	AGTTCAGCAC	1800
CAGTTAAAAC	GTGACCTTCT	GTATCGTTTG	CGTCAATGAT	TCCCAAACGT	TTGGCAATGG	1860
CTTCCGCTGT	GTCTTGGTGG	TCACCTGTAA	TCATAATTGG	ACGGATTCCC	GCTTCCTTAG	1920
CCACACGAAC	AGCCTCAGCG	GCTTCAGGAC	GTTCAGGGTC	AATCATCCCA	ATCAAACCAG	1980
AATTAAAAAT	ATCATTTTCA	AGCTCTTCAG	AAGTGAGATT	TTCTGGAATA	CTATCGATAA	2040
PCTTATAAGC	ACCTGCAAGG	ACACGCAAGG	CTTGATGAGC	CATTTCAGAA	TTGTTTGTAC	2100
GAATGAGATT	TGTAACCTTC	TCATCAATCG	GAGCAATATC	CCCAGCCTTA	TCACGAAGAA	2160
GACAACGTTT	TAAGAGTTGG	TCTGGCGCAC	CCTTGACTGC	TACAAGGAAA	CGACCATCTG	2220
GCAATGGGTG	AACTGTTGAC	ATGAGCTTAC	GGTCAGAGTC	AAATGGCAAT	TCAGCTACAC	2280
GAGGATATTT	CTCTAAGAAA	CCTTTGACAT	CATAGCCCTT	GTCCAAGGCA	TATTGGATAA	2340
AGGCTGTTTC	GGTTGGGTCA	CCAATCAAGT	TACCTTCCAC	ATCGATTTTC	GTATCATTGG	2400
CCAAGACAAC	TGAACGAAGT	AGTGGCATTT	CAAGACCTAG	TTCAATATCA	TCAGCTGAGT	2460
CATGTAGAAC	CGCATCGTAG	AAGACTTTTT	CGACTGTCAT	CTTGTTCATA	GTCAGCGTAC	2520
CAGTCTTATC	AGAAGCGATG	ATTTCAGTTG	AACCAAGTGT	TTCAACTGCT	GGCAACTTAC	2580
GAACGATGGA	ATGTCGTTTG	GCCAAAACTT	GAGTACCAAG	AGAAAGAACG	ATGGTAACGA	2640
PAGCAGGAAG	TCCTTCTGGA	ATGGCTGCAA	CGGCAAGGGC	AACAGAAGTC	AACAACTCAC	2700
CAAGTGGATT	መመተር ርር መተር አ	ATGAAGACAC	ССАСТАСААА	ACTA ACA ACC	CCAATCACCA	2760

			492			
AGATAGCATA	GGTCAAGACC	TTAGAAAGGT	TGTTCAAATT	TTGTTTGAGT	GGTGTATCAG	2820
PCTCATCCGC	ATCTTGAAGC	ATACCAGCAA	TATGACCAAC	TTCAGTGTAC	ATACCTGTAT	2880
<b>IGACAACAAC</b>	ACCCATCCCA	CGACCATAGG	TTACGTTTGA	GTTTTGGAAG	GCCATGTTGA	2940
CACGGTCACC	AATACCAGCA	TCTGTCGCAA	GCTCGACTGA	CAAGTCTTTT	TCGACTGGTA	3000
CAGATTCACC	TGTCAAGGCT	GCTTCTTCAA	TTTTAAGAGA	GTTGGCTTCT	ATCAAACGTA	3060
GGTCCGCTGG	TACCACGTCA	CCTGCTTCAA	GGGCAACGAT	ATCGCCTGGT	ACCAATTCTT	3120
PAGAGTCAAT	CTCTGCCATG	TGTCCATCAC	GAAGAACGCG	GGCAACTGGA	CTAGACATGG	3180
ATTTGAGGGC	TTCAATAGCT	TCTTCAGCTT	TTCCTTCTTG	GTAAACACCA	AAGGCAGCGT	3240
rgatgataac	CACAGCTAGG	ATGATAATGG	CATCTGCGAT	ATCTTCCCCA	CCAGAAGTCA	3300
CGACTGACAA	GATTGctGCC	GCAACTAGGA	TGATAATCAT	CAAATCCTTA	AATTGCTCGA	3360
<b>PGAATTTGAC</b>	CAAGATTGAT	CGTTTCTCGC	CTTCTTCGAG	TTCATTGTGC	CCAAATTCGG	3420
CAAGGCGCTT	TTCCGCCTCA	CTTGATGACA	AACCTTGCTC	GGTCGCATCC	ACAGCCTGCA	3480
AGACCTCTTC	AGGGCTCTGA	GTATAAAACG	CTTGGCGTTT	TTGTTCTTTT	GACATGTGTC	3540
PCCTCCTTGA	CATTGTGTGC	AAAACAGACT	CTCTTTCTGT	CATAGCTTTT	CACGACAAAC	3600
<b>AAAAAGAAA</b> C	CTGTTAATCA	TAACAAGTCT	CGCTGTTTAA	GATAGGGCCG	GAAAGCATAC	3660
PTTTCAGCAT	AAAATTCGGA	ATGACGACAC	TATCACAGGT	TTCTGCCAGC	TACTCCCTTG	3720
AGTAGTACCA	TTATACCAAA	TTTTGGGGAG	TTTTCAAAGA	GTAAAAACTG	CCTTATTTGA	3780
ATTTTTCCTT	GAAAACCAGT	ATAATGGTAG	AATGCTATGT	GACTAGAAAG	GAAGTTGAAT	3840
GAAGCAATCT	ATCTCAAATC	TCAAGTTAGC	TGAGCGTGGA	GCCATTATCA	GTATTTCGAC	3900
CTATTTGATC	TTGTCTGCAG	CCAAATTAGC	AGCTGGTCAT	CTCCtTCATT	CATCCAGTTT	3960
GTGGCCGAT	GGTTTTAATA	ACGTATCGGA	CATCATTGGA	AATGTGGCCC	TCTTAATCGG	4020
GATTCGGATG	GCGCGCCACC	TGCAGACCGT	GACCACCGTT	TTGGTCATTG	GAAGATTGAA	4080
GATTTGGCAA	GCTTGATCAC	TTCTATCATC	ATGTTCTATG	TCGGTTTCGA	TGTTCTAAGA	4140
GATACCATTC	AAAAGATTCT	CAGTCGGGAA	GAAACGGTCA	TTGATCCTCT	TGGTGCAACT	4200
CTAGGAATCA	TTTCTGCAGC	GATTATGTTT	GTGGTCTATC	TCTACAATAC	TCGCCTCAGT	4260
AGAAATCCA	ACTCCAATGC	GCTGAAGGCA	GCTGCTAAGG	ACAATCTTTC	TGACGCTGTT	4320
CCTCACTTG	GAACCGCCAT	TGCCATCCTA	GCTAGTAGTT	TCAATTATCC	GATTGTGGAT	4380
AACTGGTTG	CTATCATCAT	CACTTTCTTT	ATCTTGAAGA	CTGCCTATGA	TATCTTCATC	4440
SAGTCTTCCT	TTAGTCTTTC	AGATGGCTTT	GACGACCGCC	TGCTCGAGGA	CTACCAAAAG	4500
CTATCATGG	AAATTCCCAA	AATCAGCAAG	GTCAAATCGC	AAAGAGGTCG	CACCTACGGT	4560

GCAACATCT	ACCTGGATAT	TACACTAGAG	ATGAATCCTG	ACTTGTCTGT	TTTTGAAAGC	4620
CATGAAATCG	CGGATCAGGT	CGAGTCTATG	CTGGAGGAGC	GTTTTGGCGT	CTTTGATACC	4680
SATGTCCATA	TCGAACCAGC	ACCTATCCCT	GAGGATGAAA	TTTTAGACAA	TGTCTATAAA	4740
AATTGCTTA	TGCGTGAACA	ATTGATTGAC	CAAGGAAACC	AACTAGAAGA	ACTCTTGACT	4800
ATGATTTTG	TCTATATTCG	CCAAGATGGA	GAGCAGATGG	ATAAAGAGGC	TTATAAGACC	4860
laaaaagagt	TAAATTCTGC	TATCAAGGAC	ATTCAAATTA	CTTCCATCAG	TCAAAAAACC	4920
AACTCATCT	GCTATGAGTT	AGATGGTATC	ATCCATACCA	GTATCTGGCG	TCGCCACGAA	4980
CCTGGCAAA	ATATCTTTCA	TCAAGAAACC	AAAAAAGAAT	AGAGAAATCC	TTTCATGAGA	5040
GGGATTTT	CTATTCTTTT	ATACTCAATA	AAAATCAAAG	TGCAAATTAG	GAAGCCGGTC	5100
CAGGCTGTA	CTTGAGTCGG	CAATGTGAAG	CCGACATAGT	TTGCACTTTG	ATTTTCGAAT	5160
GTCTTAACT	ATCAAATTCA	CTGAGATACT	CATAGCGTTC	GTATTTTCA	AGGAGTGCTT	5220
CATTTTTCTC	ATCCAATTCT	TTTTGGAGAG	TAGCCAGCTT	ACCAAAGTCA	GAGCCGTTAG	5280
CTGCATTTC	CTCTTCAATA	GCAGCGATAC	GTTTTTCCAA	GGTTTCAATA	TCACCTTCAA	5340
ACTTGCCCA	CTCCTGCTTT	TCTTGGTAGG	TCATGCGTTT	CTTGTCTTCT	CGAACCTTGA	5400
CACTTTTTC	CTTTTCGGCC	TTTTGCACTT	GATTGGCCAT	ATCTGTTTCA	AAAGCTTTTT	5460
ATCAAGATA	GTCGGTGTAA	TGACCAAAGA	AAGGACGAAT	CTTGCCATCC	TCAAAAGCGA	5520
SAATCTTGGT	CGCTACCTTA	TCCAAGAAAT	AGCGGTCGTG	ACTGACTGTT	AAAACGGGAC	5580
TGCAAAACC	TTGCAAGAAA	TTCTCTAAGA	CTGTCAAAGT	TGCAATATCT	AGGTCATTGG	5640
TGGCTCGTC	TAAAAGAAGA	ACATTTGGTT	TTTCCAAAAG	CAGTTTGAGG	AGATAAAGAC	5700
TTTTTTCTC	ACCCCCTGAC	AATTTCTCAA	TCAAAGTCCC	ATGCGTCGAA	CGTGGGAAGA	5760
GAATTGCTC	CAGCAACTCA	GCGATGGAAG	TCGTAGAACC	ACCACTGGTC	TTGACCTCCT	5820
TGCCACTTC	CTGCAGGTAA	TTGATCACAC	GCTTGCTTTC	ATCCAAACCC	TCAATTTGTT	5880
AGAGAAATA	GGCGATGCGA	ACAGTTTCCC	CAATCACAAC	TTGTCCTGCT	GTCGGCTCAA	5940
ACTTCCTGC	AATCAGGTTA	AGTAGGGTTG	ATTTTCCAAC	ACCATTGTCC	CCAACAATTC	6000
AATACGGTC	TTTAGCCTGA	ACTAAGAGAT	TAAAATTTTG	CAAAATGGGC	TTATTTTCAT	6060
GGCAAAGGA	AACATCCTGA	AACTCGATGA	CTTTCTTCCC	AATCCGACTG	GTTTCAAAGT	6120
CATAGTCAA	GTCTGTCTCA	GCACTACTGC	CTGAAACTTC	CTTTTTCAGA	TCATGGAAAC	6180
ATTGATACG	AGCTTGTTGC	TTGGTCGCAC	GCGCCTGCGG	TTGTCTGCGC	ATCCAGGCCA	6240
TTCTTGTTT	GTAGAGTTGT	TCTTTTTTGT	GAAGAAGAGC	CGCGTCGCGC	TCATCCTGTT	6300

CCGCCTTTAG GCGAACATAG TCCTGGTAAT TTCCCTGGTA CTCGGTCAAG CCTGCACGAT 6360 CCAACTCGAA AATCCGTGTT GACAAAGCGT CTAAGAAATA ACGATCGTGA GTGATAAAAA 6420 GGACGGTCTT CTTAGAATTT TTCAAAAAGA GGGTCAGCCA CTCAATAATC GCAATATCCA 6480 GATGGTTGGT CGGCTCATCC AAAAGCAAGA GGTCGTGGTT GCCAAGTAAG ACTTGTGCCA 6540 ACTGTACCCG TCTTCTCAGA CCACCTGACA ATTCCCCAAC AGGAGTAGAT AAGTCTTGAA 6600 TGCCCAATFT GCTAAGAACG GTCTTGACCT GACTTTCGAT TTCCCAAGCT TGGAGAGAGGT 6660 CCATCTCTGC CATGACACGT TCCAAACGCG CCTGCTTGTC CTCACTATAG TCGAGCATAA 6720 TCAATTCATA CTCACGAATG AGCTGGATTT CCTTGAGTTC ACTAGATAGA ACCGTATCCA 6780 AAACTGTCTT TCTATCATCA AAATCAGGAT CCTGAGTCAA GTAACCAATC TGGTAATCAT 6840 TTTTAGCTGA AAAAGGACTG ACATCCCCAT CAAATCCAGA AACACCAGAA AGGACGTCCA 6900 AAAGGGTGGT CTTGCCAGTC CCATTGACAC CGATTAAACC AATTCTGTCT AAGTCATGGA 6960 TAATAAAGGA AATATCCCTA AAAACGGTCT TGTCACCAAC GGATTTACTT AGTTTTTCAA 7020 CGATAAAATC ACTCATTTTT TCTCCCTCAG GTAAGCATGG ATGGCTTCAC GATTATTCTC 7080 CAATTCTCCA TCGACAATGG CAAACTCAAT CTCTGTTAAA ATCTCTCCCA AGTCTGGGCC 7140 TGGCTGATAG CCATATTCCT TGATCAAAAT ACCGCCATTA ATCTGAATCT CTTTCTTGTC 7200 ATGGATAGTC AAGCTTTGGT ATTTTTCTGT GATGGCTTGT GGGTTGACTT CTTTTCCTTG 7260 AGCTTGACGA AGATTTTCAG CCTGTAAAAG CAAATCTATG TCAAAGCGAT AACAATCTCG 7320 CTTGCTCAAT TCTCCATTTT CACGCAGAGC CAAAATAATC AGCAAATCCT GAACTTGCTT 7380 GGCAAACTGG CGTGAGGTCT TCCAAGATTT CAAAAATGAC TGCGCATTTT CAATCTCCAA 7440 AGCCCATAGT AAAGCCGCCC AGGCTTGTTC AGAGGATTCA AAAGTAAAAT CAGTCTCCAA 7500 ATCAAACAGT CTGTTGAGCT TGTCCTGGCT AGATGCCATA TCAGGGAGAT AGTCATAAGC 7560 TTGACTCTCA ATCATGGAAG CCAAGCCCCT TCTCCAAAAT GGAGCCAGCA AGAGTTTATC 7620 AAACTCGACG AAGGTACGCT CTACAGAAAT TTTCTCCAAA AGCGGCGTCA AGGTCTTCAT 7680 AGCTTTAAAT GTTTCTGGCT CAAGTGCAAA ACCAAGACTA GCCTGAAAAC GGAAACCACG 7740 CATAATCCGT AAAGCATCTT CGTTGAAACG CTCACTAGCC ACTCCAACTG CTCGCAAGAC 7800 TTGCTTTTCC AAATCTTCTA AACCATGGAA CAAGTCAACG ATTTCTCCTG TCTCATCCAA 7860 GGCAAAGGCG TTGACTGTGA AATCACGGCG TTTGAGGTCT TCTTCTAGCG ATCGTACAAA 7920 GGAAACCGCA CTGGGTCTGC GATAGTCCAC ATAGACATCC TCTGTCCGAA AGGTTGTTAC 7980 CTCATACTCC TCATCCCCAT CTAAGACCAA GACGGTTCCA TGCTCGATTC CGATATCGGC 8040 TGTTCGCGGA AAAATCTGCT TGGTCTCTTC TGGATAAGAA GACGTCGCAA TATCCACATC 8100

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GAACCCAAGC	CAAAATCAAG	CAAGTGCTGA	CGCAATTCTT	CAGCCTTTTC	AGGAGCATTC	9420
CCATGAATGA	CAATGACCCG	GTATTGACCT	GAAGCCGTTG	TTTCCTTGAT	AATTTCAATT	9480
AAGCGCTTGG	TGGCCTTCTT	TTCAGTACGA	ACTTTTTCGT	AAACTTCAAT	CACACCTTGA	9540
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CGGCTGATTT	GAATGGCTAG	CTTATCCTGA	ATGCTGGCAA	AATCATCGCC	CTGATCACGC	9720
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			496			
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аатсатааа <b>g</b>	CTCAAGATGA	CAATCAAGGA	AGTCACTTGA	TTTTCTTGGT	CATGTTGGAG	10380
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FGTCACCATT	CTCATCAACA	GCAATCAAGC	GGTCACTGTC	TCCATCAAAG	GCCAAACCAA	11220
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CAAAGTCTGT	TCCTGCTTCT	GCCAAAATAG	CACCGATGTT	TTTCAAGACT	TGCTCTGTCT	17760
GTTCTTGGAT	ATTCTCTCCT	ACAATTTCCC	CAGTTTCAGG	GGATAGGGGA	ACTTGACCGC	17820
TAGCAAACAA	AAGGTTGCCA	ACGATTTTTC	CTTGAACATA	GGGTCCGATA	GCCTTTGGGG	17880
CCTTATCTGT	ATGAATTGTT	TTTGCCATTT	TCTTTTCCTC	ACAATTTTTC	TAAGATTGCA	17940
TCCCAAGCCT	CATCCATCCC	TGCCTTACTG	ACAGATGAAA	AGAGGATGAA	ATCGTCACTC	18000
GGGTCAAAGT	TTAATTTCTT	TTTGATTGCT	GATTCATGCT	TGTTCCATTT	ACCACGAGGA	18060
ATCTTGTCCG	CCTTGGTCGC	CACAATGATG	ACTGGAATCT	CATAATACTT	GAGAAATTCG	18120
FACATCTGCA	CATCATCTGC	TGACGGGTCA	TGACGAAGGT	CAACTAGACT	GACAACCGCA	18180
CGGAGATTTT	CCCGAGTCGT	TAAGTACTCC	TCAATCATGC	ACCCCCACTT	TTCACGTTCC	18240
PTTTTAGAAA	CACGAGCATA	GCCATAACCA	GGCACATCCA	CAAAGCGCAT	CTTGTCATCA	18300
ATGTTAAAAA	AGTTCAGGAG	CTGGGTTTTA	CCAGGTTTTC	CTGATGTACG	GGCGAGATTC	18360
PTACGGTTCA	ACATAGTGTT	GATAAAGCTG	GATTTACCAA	CATTTGAACG	CCCTGCTAGG	18420
CAATCTCTG	GCAGTTCATC	CTGCGGATAG	TGGGACTTAT	TAGCTGCACT	GAGCAAGATT	18480
<b>FCAGCATTGT</b>	GTGTATTAAG	TTCCATAGTC	ACCTCTAGGC	TGTTTCTAGG	ATCGGTTTAT	18540
CCGTTCCATC	TACAGTTTCT	TTAGTGATGC	GAACCAATTT	CACATTTTCC	TGACTCGGCA	18600
CCTCAAACAT	GACATCTAGC	ATGGTTTCTT	CGATGATGGA	GCGAAGTCCA	CGCGCCCCTG	18660
CTTCCGTTC	GATTGCTTTA	TTAGCAATCT	CTTGAAGGGC	TTCGTCGTCA	AATTCCAACT	18720

CAACATCATC	ATAAGAAAGC	AAGGTTTGGT	ATTGTTTCAC	CAAGGCATTT	CTTGGCTCTT	18780
TCAAGATGCG	AACCAAGTCA	TCAACGGTCA	ATTGCTCAAG	AGCCGCAAAA	ACAGGCAAGC	18840
GTCCAATCAA	CTCAGGGATA	ATACCAAATT	TTTGAATGTC	TTCAGCGATG	ATTTCTTGCA	18900
TGTATGAGCT	GTTTTCGTCA	ATCGCCTTAT	TATTTTGACC	AAATCCGATG	ACTTTTTCAC	18960
CCAGACGTTG	TTTGACAATT	TCTTCAATAC	CATCAAAAGC	ACCACCCACG	ATGAAGAGGA	19020
TATTTTTGT	ATCCACTTGA	ATCATCTCTT	GTTGTGGATG	TTTGCGTCCA	CCTTGAGGCG	19080
GTACGCTAGC	AACAGTTCCC	TCAATAATCT	TGAGAAGGGC	TTGTTGCACC	CCTTCACCAG	19140
AAACATCACG	TGTGATAGAC	ACATTCTCAC	TCTTCTTGGC	AATCTTGTCA	ATTTCATCCA	19200
CATAGATAAT	GCCACGCTCT	GCACGTTCGA	TGTTAAAGTC	AGCAACCTGC	AAGAGTTTGA	19260
GGAGGATATT	TTCCACATCC	TCACCCACAT	AACCAGCCTC	CGTCAGAGCT	GTCGCATCCG	19320
CAATAGCAAA	AGGTACATTC	AAGCTCTTAG	CCAAGGTCTG	GGCAAGGAAA	GTTTTCCCTG	19380
AACCAGTTGG	GCCAATCATC	AAAATGTTTG	ACTTCTGCAA	ATCCACATCT	TCTGACTCTT	19440
CGCGTGTATC	GTGGAAATTG	ATGCGTTTGT	AGTGGTTATA	AACCGCCACT	GCCAAGGCAC	19500
GCTTGGCACG	ATCTTGACCA	ATTACATAGT	GGTTCAAGAT	ATGGAGGAGT	TCAATTGGTT	19560
TTGGCACCTC	AGACAAGTCT	GCCAAGACTT	CCTCAACCAA	TTCTTCTCGA	ATGATTTCCT	19620
GAGCTAACTC	CACGCATTCA	TTACAAATAA	AAGCATTGTT	GCCAGCAATT	ATTTTTTGTA	19680
CTTCTTCTTG	GTTTTTGCCA	CAAAATGAGC	AATAAACCAT	CATATCATTT	TTTCTATTTG	19740
TAGACATGAT	TTCCTTCCAT	TCTATACTGT	CATTCTATCT	AAAATAAGGT	CATGTAAAAA	19800
GCATGAATAC	TATTGACCAG	ATTGGTAAAG	GCATTTAACC	AAAGGAGGAT	AGAAAGCCCG	19860
TAACGCTTTT	TACGAAAAGC	TTGTGCTCCT	GCCAGAAAGC	AGATGAAACA	CAGAAAAGCC	19920
GTGAATAGAC	CAAATAAACT	CCGTTCCATT	AGACTTCCTT	TCTCTTGCGG	TATTGGATGG	19980
ТААААТСАТА	AGGATTCTTC	TCATCTTTGG	CGTAAAATTT	GCTTGAAACT	GTCTCAAAAA	20040
GAGACAAGTC	AAGTTCTTCA	GGGAAATAGG	TATCTCCTTC	CACCCGAGCA	TGAATGTGAG	20100
TGACAATCAC	TTCATCAAGG	TAAGGTTCAA	AAGCCTGAAA	AATTTGCTTC	CCACCGATAA	20160
TGTAGAGATT	CTTTTCTTGA	GCCTGATACC	AGTCAAGAAC	AGACTGGACG	TCCTGAAAAG	20220
TAGCAACCCC	ATCTATCTTT	TCTTCCGGAT	TACGCGTCAA	AATCAAGGTT	TCCCGTTTTG	20280
GAAGCAAGCG	ACGCCCCATC	CCATCAAAGG	TCACACGCCC	CATCAAGATA	GCATGATTCA	20340
GAGTTGTTTC	TTTAAAGTGC	TGCAATTCTG	CTGGCAAATG	CCAAGGCAGA	CGATTTTCCT	20400
TACCAATCAC	ACCCTCTTCA	TCCTGGGCCC	AAATAGCTAC	GATTTTCTTA	GTCATGCTTC	20460

			502			
CATCCTTTTC	ACTGATAGTA	CTATTTTATC	AAAAAACTCA	AAAAAAGACT	GGTTTGGAAT	20520
AGCTTACAAA	ATAGAAAAA	TCTGTAAGAA	ATTTCCTACA	GATTTATCTA	TGTTTCCTTA	20580
ТТТСТТАСАА	ACCAGGTGCT	TGTCCAAGTT	CGGCTGCAAG	CATCCAAATT	GTTTTATCTG	20640
TTTCAGTTTT	AGCGCCTGCA	AAGATACCGT	TTGTCACATC	GTCACCTTCT	TCATCAGTGA	20700
CATCCAAACC	TTTTTGGAAA	AGTTCTGACA	AGTAACGGTA	GATAACAAGA	ACACGTTCCA	20760
AGCTTTCTTC	AACATTACGG	TATTCACCAG	CTTCTTCTTC	GATTTCACTA	TTTTGAAGGA	20820
ACTCTGTCAA	TGTAGAGAAT	GGGCTTCCAC	CGAGTGTAAT	CAAGCGTTCA	CTGATTTCAT	20880
CCAATTGACC	GTCAAGAGCT	TCCATGTACT	CATCCATTTT	TGGATGCCAT	ACAAGGAAAC	20940
CACGACCATG	CATATACCAG	TGCACTTGGT	GCAAAGCAAC	GTGAGCTACA	TACAAATCAG	21000
CAACAGCTTG	GTTCAAGACT	TCCTTTGTTT	TTGCCAATGC			21040

### (2) INFORMATION FOR SEQ ID NO: 56:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 2387 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 56:

ATTCTTAATA CGATTAAAAG GCTTATTACT AAAAGAAAAT TTCAGTTAGA TGAACTAAAC 60 TTGCTCGTCA AATCCCGATT TAACGAGATG TTTGGGGAAA ATAAAATATT TGAAAGCATT 120 GATAACTTAT TTGATATTAT AGATGGTGAT AGGGGCAAAA ATTATCCTAA ATCAGATGAG 180 TTGTTTAGTG AGGAGTACTG TTTATTTTTA AATACAAAGA ATGTTACTAA AAACGGATTT 240 TCATTCGATA CAAAGCAATT TATCACTAAA ACAAAGGATA AATTACTTCG AAAAGGCAAA 300 CTTGAGCGTT ATGATATAGT CTTGACAACA AGAGGTACTG TTGGAAATGT AGCGTACTAC 360 GATGAATTAA TAAAATATAA ACATTTACGT ATAAATTCAG GTATGGTAAT ATTACGTCCC 420 AAGACACCAA ATCTAAATCA GAAATTTATT ATCCATGTTT TAAGGAATAA TAATTATAGT 480 CGAGTGATAT CAGGAAGTGC TCAGCCTCAG TTACCAATTA CAAAATTAAA AAAAATACTT 540 CTCCCCCTCC CCCCACTAGC CCTCCAAAAT GAGTTCGCAG ACTTTGTAGT CCAGGTCGAC 600 AAATCACAAT TGGCAATCCA AAAATCTCTG GAAGAACTTG AAACTTTGAA GAAATCTCTG 660 ATGCAGGAGT ATTTTGGCTG ATATTCTGCC ATTGTAATTA CGGTAATGAT TTGTTATAAT 720 ACTTCAAAGG AGGAAATCAG ATGGTAGTAA AAACAAGAAA ACAAGGAAAT TCAATCACCA 780 TTACGATTCC AAGTGAATTT AATATTCCAA GTGGTGTTAA ATACGAAGCG AAATTGTTAC 840

CAAGTGGTGA	GATTATCTTT	ACTCCTGAAG	AATTGGGGCA	GCAGGTTTCT	TATGTATCTG	900
ATGATGCCTT	TGACTTAAAT	TTAGATAAAA	TATTTGACGA	ATACGACGAT	GTTTTCAAAG	960
CTTTGGTGGA	AAAATGACAA	TCTATTTGAC	AGAAAAGCAA	ATTGAAAAAA	TAAATGCTTT	1020
AGCAATTCAA	CGGTATTCTC	CAAATGAGAA	AATTCAAACA	GTTAGTCCTT	CTGCCTTAAA	1080
TATGATTGTG	AACTTACCAG	AACAATTTGT	CTTTGGGAAG	CCTCTTTATC	CAACAATTTT	1140
TGATAAAGCA	ACGATACTAT	TTGTCCAATT	GATAAAGAAG	CATGTTTTTG	CTAATGCTAA	1200
TAAAAGAACT	GCTTTCTTCG	TTTTGGTCAA	ATTTTTACAA	TTAAACGGCT	ATCGTTTTTC	1260
TGTAACGGTA	GAAGAAGCAG	TAAAAATGTG	TGTAACCATC	GCAGTAGAAG	CTTTAACTGA	1320
TGAAAAAATG	ACAAGCTACT	CCAAATGGAT	TTCTGAACAT	TCTGTTAGAG	AAAAGGTCAA	1380
AAAGTAACCT	AGTATGCTGG	ATTTGAATGA	GCACAAGAAA	ATAAATGAAC	AGACAATATT	1440
AGAATTCTGT	AATGCAGAAA	CTGATATTGT	CTCTTTTTAT	TGATGAATAA	GAAAGTGAGA	1500
AATTATGGAA	TCAAAAGTTA	CAATTATCAT	GCAAGAAATG	TTACCTCTTT	TAAATAATGA	1560
АСААТТАСТА	GCGTTGAGAG	AGAGTTTAGA	ACATCATCTA	GTAGACGGAA	AAAAGCAGCA	1620
GAAGTATTCG	AATAATAACC	TGTTGCAACT	ATTTATTACC	GCCAAGCAGG	TAGAGGGCTG	1680
TAGCTCAAAA	ACAATTCGTT	ATTATCAGAG	GACGATTGAA	AACTTGTTTA	ATGCTATTAA	1740
AGAGTCTGTG	ACACAACTCA	CAACAGATGA	TTTAAGGAGT	TATTTAGCAA	ATTACCAGTC	1800
TGAAAAGGAT	TGTAGTAAGG	CAAATTTAGA	CAATATTAGG	CGTATATTGT	CTTCTTTTTT	1860
TGCTTGGCTT	GAGCAAGAGG	ATATATCATT	AAAATTCCCA	TTCGACGGAT	ACAGAAAATT	1920
AAGACTGAGC	AAAATGTGAA	GGAAACTTAT	ACTGATGAAC	ATTTGGAAAT	TATGCGTGAT	1980
AACTGTGAAA	ATTTGAGAGA	TTTGGCAATA	ATAGACCTAC	TAGCATCGAC	AGGTATGCGT	2040
GTAGGGGAGC	TTGTACAGTT	GAATCGTTCA	GATATTGATT	TTGAAAACAG	AGAGTGTGTT	2100
GTCTTTGGTA	AAGGAAAGAA	GGAGAGACCA	GTATATTTTG	ACGCTCGTAC	GAAAATTCAT	2160
TTAAGAAATT	ATCTTAACGA	CAGAAAAGAT	AGTCACCCTG	CTCTTTTTGT	AACGCTAGTT	2220
GGAAAAGTCC	AGAGGCTTGG	AATTGCTGGT	GTAGAGATTC	GCTTAAGAAA	GTTAGGAGAC	2280
AAACTCGGCA	TACAAAAGGT	TCACCCACAT	AAGTTCAGAA	GAACTTTAGC	GACTAAGGCA	2340
ATTGATAAAG	GTATGCCTAT	CGAACAAGTC	CAAAAACTGC	TAGGTCA		2387

(2) INFORMATION FOR SEQ ID NO: 57:

<sup>(</sup>i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 10669 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

504

# (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 57:

ATATTAAAGC	GACTTTCTGT	GCGCTAGGGA	AAAATGTTCC	TGGGAATGAG	GACTTGGTGA	60
agaggataaa	ATCTGAAGGT	CATGTTGTTG	GAAACCATAG	CTGGAGCCAT	CCGATTCTCT	120
CGCAACTCTC	TCTTGATGAA	GCTAAAAAGC	AGATTACTGA	TACTGAGGAT	GTGCTAACTA	180
AAGTGCTGGG	TTCTAGTTCT	AAACTCATGC	GTCCACCTTA	TGGTGCTATT	ACAGATGATA	240
TTCGCAATAG	CTTGGATTTG	AGCTTTATCA	TGTGGGATGT	GGATAGTCTG	GACTGGAAGA	300
GTAAAAATGA	AGCATCTATT	TTGACAGAAA	TTCAGTATCA	AGTAGCTAAT	GGCTCTATCG	360
TTTTGATGCA	TGATATTCAC	AGTCCGACAG	TCAATGCCTT	GCCAAGGGTC	ATTGAGTATT	420
TGAAAAATCA	AGGTTATACC	TTTGTGACCA	TACCAGAGAT	GCTCAATACT	CGCCTAAAAG	480
CTCATGAGCT	GTACTATAGT	CGTGATGAAT	AAGCAAGAAA	AAATAGGTCT	GTTAGATATT	540
TGACAGACTT	ATTTTTTACA	GAATATAGTA	СТАСТТАААА	AATGTTTTAT	GCTATAATTG	600
ATGAATAAAA	TAGAAGGAGA	AGCATATGAA	TACCTATCAA	TTAAATAATG	GAGTAGAAAT	660
TCCAGTATTG	GGATTTGGAA	CTTTTAAGGC	TAAGGATGGA	GAAGAAGCCT	ATCGTGCAGT	720
GTTAGAAGCC	TTGAAGGCTG	GTTATCGTCA	TATTGATACG	GCGGCGATTT	ATCAGAATGA	780
AGAAAGTGTT	GGTCAAGCAA	TCAAAGATAG	CGGAGTTCCA	CGTGAAGAAA	TGTTCGTAAC	840
TACCAAGCTT	TGGAATAGTC	AGCAAACCTA	TGAGCAAACT	CGTCAAGCTT	TGGAAAAATC	900
TATAGAAAAA	CTGGGCTTGG	ATTATTTGGA	TTTGTATTTG	ATTCATTGGC	CGAACCCAAA	960
ACCGCTCAGA	GAAAATGACG	CATGGAAAAC	TCGCAATGCG	GAAGTTTGGA	GAGCGATGGA	1020
AGACCTCTAT	CAAGAAGGGA	AAATCCGTGC	TATCGGCGTT	AGCAATTTTC	TTCCCCATCA	1080
TTTGGATGCC	TTGCTTGAAA	CTGCAACTAT	CGTTCCTGCG	GTCAATCAAG	TTCGCTTGGC	1140
GCCAGGTGTG	TATCAAGATC	AAGTCGTAGC	TTACTGTCGT	GAAAAGGGAA	TTTTATTGGA	1200
AGCTTGGGGG	CCTTTTGGAC	AAGGAGAACT	GTTTGATAGC	AAGCAAGTCC	AAGAAATAGC	1260
AGCAAATCAC	GGAAAATCGG	TTGCTCAGAT	AGCCTTGGCC	TGGAGCTTGG	CAGAAGGATT	1320
TTTACCACTT	CCAAAATCTG	TCACAACCTC	TCGTATTCAA	GCTAATCTTG	ATTGCTTTGG	1380
AATTGAACTG	AGTCATGAGG	AGAGAGAAAC	CTTAAAAACG	ATTGCTGTTC	AATCGGGTGC	1440
TCCACGAGTT	GATGATGTGG	ATTTCTAGAA	AATCATAAAA	AGAATTGTAC	АТТАТТСТАА	1500
TTTTTGATAT	AATAGTCAGC	AGGAAAGAAA	GTCTTATGGC	GTTCTTCAAG	CGAGCTTGGG	1560
ATAGTGGGAG	CCAAGTAGGG	CAAAATAAAG	GGCTGGCGCT	TTCTGTAGTA	TTTTCAAAAA	1620

CAATGAAGTA	ATAAATTAGG	GTGGAACCGC	GTTTCTGACG	CCCCTAGGTT	AAATCAACCT	1680
AGGATTGTCA	GATGTGGTTC	TTTTGCTTAT	TCAGTCTATT	GTGTGAAAGA	AAGGAGAGCC	1740
GTGGACAACC	TTTATCTTGT	AAAAGACGAT	AGTCAACTAG	CTACATTTCG	TGATTTTGTA	1800
GTAAGAAATA	CTGAAAAGTT	GAAAGATTAT	CAATCTTTTT	TAAAGAATGA	ACTTGCAGTC	1860
TGTGATTTAC	CGCAAGCTGT	TATTTGGTCA	GATTTTAATG	CTGCTACACA	GATTATTAGG	1920
GAAAGTGCTG	TTCCAACCTA	TACAAATAAT	AGACGAGTGG	TTATGACGCC	TGATTTAGCT	1980
GTTTGGAAAG	AATTGTATTT	GTATCAGTTG	ATGGACTACG	AGTGTTCTGA	GCAAACTCAA	.2040
GCAATAGAAA	GTCACTATCA	TTCTTTATCT	GAAAATTTCC	TCTTACAGAT	TGTAGGACAT	2100
GAGTTAGCTC	ATTGGTCGGA	CATTTTTTAG	ATGATTTTGA	TGGTTATGAC	TCTTATATCT	2160
GGTTCGAAGA	GGGGATGGTT	GAATATATTA	GTCGCAAGTA	TTTCTTGACA	GAAGAGGAAT	2220
TTCAAGCGGA	Aaaaatttgt	AATCAATCTC	TCGTAGAACT	TTTTCAGAAG	AAGTATAGTT	2280
GGCATTCATT	GAATGATTTT	GGTTCTTCGA	CTTATGATAA	GAACTATGCA	AGTATTTTT	2340
ATGAATACTG	GCGCAGCTTT	TTGACAGTAG	ATAAGTTGGT	AGAAAATTTA	GGTAGTGTAC	2400
AAGCGGTCTT	AGATTCTTAT	CATTTATGGG	CAAATACAGA	AAAAACTTTT	CCCTTGTTAG	2460
ATTGGTTTGT	TCAGCAGAAA	TTAATTGAAA	AAGAAATATA	AAAACTAAAG	GAGTAAACAA	2520
TGTCTAAGAA	ATTAACATTT	CACTGCATCA	GTGGCAGAGA	CCTCCTTACA	GTCGGGCTGC	2580
TCCACGCTCA	GCACTAGAGT	GCCTGAGCTA	GACGCAGTAC	TAACTCGTCT	TGCCTCGTAT	2640
GATCGACGAG	GCAGACTCGT	GTCGCAAGTA	ATTATTTTTT	ATTAAGGAGT	ATTCAATGTC	2700
TAAGAAATTA	ACATTTCACT	GCGTCAGTGG	CAGAAACCTC	CTTACAGTCG	GACTGCCCTA	2760
CGCTCAGCAC	TAGAGTGCCT	GAGCTAGACG	CAGTACTAAC	TCGTCTTGCC	TCGTATAATC	2820
GACGAGGCAG	ACTCGTGTCG	CAAGAAATTA	TTTTTTTATTA	AGGAGTATTC	AATGTCTAAG	2880
АААТТААСАТ	TTCAAGAAAT	TATTTTGACT	TTGCAACAAT	TTTGGAATGA	CCAAGATTGT	2940
ATGCTTATGC	AGGCTTATGA	TAATGAAAAA	GGTGCGGGGA	CAATGÁGTCC	TTACACTTTC	3000
CTTCGTGCTA	TCGGACCTGA	GCCATGGAAT	GCAGCTTATG	TAGAGCCATC	ACGTCGTCCT	3060
GCTGACGGTC	GTTATGGGGA	AAACCCTAAC	CGTCTCTACC	AACACCACCA	ATTCCAGGTG	3120
GTCATGAAGC	CTTCTCCATC	AAATATCCAA	GAACTTTACC	TTGAGTCTTT	GGAAAAATTG	3180
GGAATCAATC	CTTTGGAGCA	CGATATTCGT	TTTGTTGAGG	ACAACTGGGA	AAACCCATCA	3240
ACTGGTTCAG	CTGGTCTTGG	TTGGGAAGTT	TGGCTTGACG	GAATGGAAAT	CACTCAGTTC	3300
ACTTATTTCC	AACAAGTCGG	TGGATTGGCA	ACTGGCCCTG	TGACTGCGGA	AGTTACCTAT	3360

			506			
GGTTTGGAGC	GCTTGGCTTC	TTACATTCAA	GAAGTAGACT	CTGTCTATGA	TATCGAGTGG	342
GCTGATGGTG	TAAAATACGG	AGAAATCTTT	ATCCAGCCTG	AGTATGAGCA	CTCAAAATAT	348
TCATTTGAAA	TTTCGGACCA	AGAAATGTTG	CTTGAAAACT	TTGATAAGTT	TGAAAAAGAA	354
GCTGGTCGTG	CATTAGAAGA	AGGCTTGGTA	CACCCTGCCT	ATGACTATGT	TCTCAAATGT	360
TCACATACCT	TTAATCTGCT	TGACGCGCGT	GGTGCCGTAT	CTGTAACAGA	GCGTGCAGGC	366
TATATCGCTC	GTATCCGTAA	CTTGGCCCGT	GTCGTAGCCA	AAACCTTTGT	CGCAGAACGC	372
AAACGCCTAG	GCTACCCACT	TTTGGATGAA	GAAACAAGAG	CTAAACTCCT	AGCAGAAGAC	378
GCAGAATAAA	GAGAGTGACA	AATTACGAAA	ATGGGCGAAC	AGAGTGAGCC	CTGAGCCAGT	384
TGCCGCAGTG	ATGAAGGTAT	CCTTAGTGAA	ACTAAGGATA	CTAGGCAAAA	TTGGAGACTT	. 390
TTGGCTCCAA	TTTTAGCAAT	GAAACAACGA	AGTTGGTTGC	TTGCGTGCCA	ATCACATAAG	3960
GCAAACTGGA	AAATAAAAG	ATACTTTTCG	GAGAAAAAAC	ATGACAAAAA	ACTTATTAGT	4026
AGAACTCGGT	CTTGAAGAAT	TACCAGCCTA	TGTTGTTACG	CCAAGTGAAA	AACAACTAGG	4080
CGAAAAAATG	GCAGCCTTCC	TCAAGGGAAA	ACGCCTGTCT	TTTGAAGCCA	TTCAAACTTT	4140
CTCAACACCA	CGTCGTTTGG	CTGTTCGTGT	AACTGGTCTT	GCAGACAAAC	AGTCTGATTT	4200
AACAGAAGAT	TTCAAGGGTC	CAGCAAAGAA	AATTGCCTTA	GATAGTGATG	GAAACTTCAC	4260
CAAAGCAGCT	CAAGGATTTG	TCCGTGGGAA	AGGTTTGACT	GTTGAAGATA	TCGAATTCCG	4320
TGAAATCAAG	GGTGAAGAAT	ATGTCTATGT	CACTAAGGAA	GAAATTGGTC	AAGCAGTTGA	4380
AGCCATTGTT	CCAGGCATTG	TGGATGTCTT	GAAGTCACTG	ACTTTCCCTG	TCAGCATGCA	4440
CTGGGCGGGA	AATAGCTTTG	AATACATCCG	CCCTGTTCAC	ACTTTAACTG	TTCTCTTGGA	4500
TGAGCAAGAG	TTTGACTTGG	ATTTCCTTGA	TATCAAGGGA	AGTCGTGTGA	GTCGTGGCCA	4560
TCGTTTTTTG	GGACAAGAAA	CCAAGATTCA	GTCAGCATTG	AGCTATGAAG	AAGACCTTCG	4620
TAAGCAGTTT	GTAATCGCAG	ATCCATGTGA	ACGTGAGCAA	ATGATTGTTG	ACCAAATCAA	4680
GGAAATTGAG	GCAAAACATG	GTGTACGTAT	CGAAATTGAT	GCGGATTTGC	TGAATGAAGT	4740
CTTGAATTTG	GTTGAATACC	CAACTGCCTT	CATGGGAAGT	TTTGATGCTA	AATACCTTGA	4800
AGTTCCAGAA	GAAGTCTTGG	TGACTTCTAT	GAAGGAACAC	CAGCGTTACT	TTGTTGTTCG	4860
<b>I</b> GATCAAGAT	GGAAAACTCT	TGCCAAACTT	CATTTCTGTT	CGTAACGGAA	ACGCAGAGCG	4920
PTTGAAAAAT	GTCATCAAAG	GAAATGAAAA	AGTCTTGGTA	GCCCGCTTGG	AAGACGGAGA	4980
ATTCTTCTGG	CGTGAAGACC	AAAAATTGGT	GATTTCAGAT	CTTGTTGAAA	AATTAAACAA	5040
<b>FGTCACCTTC</b>	CATGAGAAGA	TTGGTTCTCT	TCGTGAACAC	ATGATTCGTA	CGGGTCAAAT	5100
CACTGTACTT	TTGGCAGAAA	AAGCTAGTTT	GTCAGTGGAT	GAAACAGTTG	ACCTTGCTCG	5160

rgc	AGCAGCC	ATTTACAAGT	TTGACTTGTT	GACAGGTATG	GTTGGTGAAT	TTGACGAACT	5220
CA	AGGAATT	ATGGGTGAAA	AATACACCCT	TCTTGCTGGT	GAAACTCCAG	CGGTGGCAGC	5280
rgc	TATTCGT	GAACACTACA	TGCCTACATC	AGCTGAAGGA	GAACTTCCAG	AGAGCAAGGT	5340
CGG	CGCAGTT	CTAGCCATTG	CAGACAAATT	GGATACGATT	TTGAGTTTCT	TCTCAGTAGG	5400
ΥT	GATTCCA	TCAGGTTCTA	ATGACCCTTA	TGCCCTTCGT	CGTGCAACTC	AAGGTGTGGT	5460
rcg	TATCTTG	GATGCCTTTG	GTTGGCACAT	TGCTATGGAT	GAGCTGATTG	ATAGCCTTTA	5520
rgc	ATTGAAA	TTTGACAGTT	TGACTTATGA	AAATAAAGCA	GAGGTTATGG	ACTTTATCAA	5580
GC	TCGTGTT	GATAAGATGA	TGGGCTCTAC	TCCAAAAGAT	ATCAAGGAAG	CAGTTCTTGC	5640
AGG	TTCAAAC	TTTGTTGTGG	CAGATATGTT	GGAAGCAGCA	AGTGCTCTCG	TAGAAGTAAG	5700
CAA	GGAAGAA	GATTTTAAAC	CATCTGTTGA	ATCACTTTCT	CGTGCCTTTA	ACCTGGCCGA	5760
GAA	GGCAGAA	GGGGTTGCTA	CGGTTGATTC	AGCACTATTT	GAGAATGACC	AAGAAAAAGC	5820
rrr	GGCAGAA	GCAGTAGAAA	CACTCATTTT	ATCAGGACCT	GCAAGTCAGC	AATTGAAACA	5880
ACT	TTTTGCG	CTTAGCCCAG	TCATTGATGC	TTTCTTTGAA	AATACTATGG	TAATGGCTGA	5940
AGA	TCAGGCT	GTCCGTCAAA	ATCGTTTGGC	AATCTTGTCA	CAACTAACCA	AGAAAGCAGC	6000
AA1	GTTTGCT	TGTTTTAACC	AAATTAACAC	TAAATAAAAT	TTGATAAACG	GACTTTATCT	6060
TAT	TACAAAG	GAGAAGAAAT	GGATCCGAAA	AAAATTGCTC	GTATCAATGA	GCTTGCTAAA	6120
AAG	ааааааа	CAGAAGGCTT	AACACCAGAA	GAAAAAGTGG	AACAAGCCAA	ACTACGTGAG	6180
BAG	TACATCG	AAGGTTATCG	CCGCGCTGTT	CGTCACCACA	TTGAAGGAAT	CAAAATTGTG	6240
AC	GAAGAAG	GAAACGATGT	TACACCAGAA	AAACTACGCC	AAGTACAACG	TGAAAAAGGA	6300
ATT	CATGGCC	GTAGTCTTGA	TGATCCAAAT	TCATAATAAT	ACTCTTCGAA	AATCAAATTC	6360
AAA	CCACGTC	AGCTTCACCT	TGCCGTACTT	AAGTACAGCC	TGCGGCTAGC	TTCCTAGTTT	6420
CT	CTTTGAT	TTTCATTGAG	TATATGTATT	CTTTCTTTTA	ACAAAGATAG	ATGAAACGAT	6480
AAC	AAAGAGA	CTAGCAGTTT	GTGTTTGCTA	GTCTTTTTTC	GCTAAAAAAG	GAACCATAAT	6540
GT	тсстала	AACTATCATT	AGTAACTTGC	ACCGGCTGTA	GCGTCTGCGT	CACCACCGTG	6600
3CC	TCCAGCA	TCCCCTGAAT	CAGAAGCGCC	AGAAGTAGCA	TCGGCGTCTC	CATGACCTCC	6660
GC	AGCAGGA	GCAAATGGTC	CGCTACCACC	CACCAAACGT	TGACCAGTCT	CTTTTAGGTA	6720
CA	GTCAAGC	CATGGTTGGA	AGTTAAAGAC	GATTTCATTG	ATACCAGCGT	ATGATCCATC	6780
AGG	ATAGTAC	ATTGCTTGGT	AGTTGTGAGT	GTTGATAACA	CCTGCAGGAG	AACCTGGAAC	6840
TAE	CGTACGG	ACGTATTCTT	GGTTTCCGTT	GCGAAGTGTT	CCGATAACCC	ACTCTACGTT	6900

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CTTCATACGT	GCTGGTGGAA	GAGAACCATG	AACAGTCGAC	ATACGGCTAC	CTGATTGAGG	6960
TGGTACACGT	TTAGCGAACA	TAGTGTCTGG	ATCTTGGTGA	GCGTTGTTGT	AGTAGAGGAA	7020
TTGGTTGTTG	TCGTCAGCGT	ATGTCAATTC	AAATGGCATA	GCTTTCAAGA	ACATATCAAT	7080
PTGGTTAACT	GTTAGGATAC	CGTGGTCCAA	TTTGACATAG	GTATCACCAG	AAACAGCACC	7140
AGTGAATGCT	GCAACTTTTT	CTACCCATTC	TGGATCGTCA	GGGTCAACTT	CTGTGATGGT	7200
TGTAGCGATT	GGTTTTCCAC	AATCCAAGTC	TTCTGATTCG	ATTGGTTTTG	GTTTTTTCAA	7260
TTTCGAAACG	ACTCCTACGT	ATTTAACAAA	GTTATCTAAG	CAAGTTTCAA	GGAATTTAAC	7320
AGTGCCTTCG	TTGGTGATAT	TTCCGTTGTT	ATCAAAAGCT	TCCTTAGCTT	TACCAAGAAG	7380
GAATTCGTTA	CCTGGAAGCG	TGTAGGCATT	AACACCTGGA	GCATCAAGGA	TTTTACGAAG	7440
GTGAACTTGA	GCACGTGATG	TTCCTTGGTC	ATAGTATGAT	GCACCCACAA	TCATAACAGG	7500
CTTGTTTTCA	AATGGATGAA	CTTCGTATGA	AAGCCATTCA	AGTACAGATT	TGAGTGAAGC	7560
TGAGATAGTG	TGGTTATGCT	CAGGAGTAGC	AATGATAACA	CCATCTGCAC	GAGTAATTTT	7620
GTTATATAAA	TAACGTAATT	GGAAACTTTC	ATCCCATTTT	TCATCTTGGT	TAAACATTGG	7680
AACTTCGTCA	ATTTCAAGAA	CTTCTAATTC	AAATTTGAGT	TTGAAGTAGC	GACGGATAAA	7740
TTCCAAGAGC	TTACGGTTAT	ATGATTGATC	GTAGTTTGAT	CCAACAAGTC	CAACAAATTT	7800
CATTCTTTTT	GGTCTCCTAT	CTTACAAATT	TTCCCAGTCA	AAGTCTTCAG	CATCTTTGCG	7860
AAGTAATTCT	TGTGCATTAC	GTAATTTTTC	TGTGATTTTT	ACAAAGATAC	GGAAGTCATC	7920
AAAGATGGCA	TCCAATTTCT	TGATAACATC	AAGGTCAACC	AAGTCGCCAC	TTGGGTTAAA	7980
rgcttgaaga	GAGTGTGAGA	GCAAGAATTC	ATCTGGAAGA	ACATTTGCCT	TGATTTCAGG	8040
AGCATTCAAG	ATTTGACGAA	GTTGCAATTG	GGCACGAGAT	GAACCAAGCG	TACCGTAAGA	8100
AGCACCTGTA	ATCATGATTG	GTTTGTTCAA	AAGTGGGTAA	ATACCATAAG	ACAACCAAGC	8160
AAGAGCGCTC	ATCAAAACAG	CTGGAATAGA	GTGATCATAC	TCAGGAGTAC	CGATAATAAC	8220
CCATCTGCC	TCTTCGATTT	TAGCAGCAAT	TTCCAATATT	TCAGCAGGTA	CTTGCTTGTC	8280
AGCTGGTTTG	TTGAAGACAG	GAATGGCCTT	GATTTCAACA	AGTTCAATTT	CAGCTTTGTC	8340
AGTAAAGTGT	TTTTGCATGT	ATTGAAGCAA	TTGACGGTTT	GTAGAACGTT	TTGAATTTGT	8400
rccaacaata	GCAATAAGTT	TTAACATGAG	ATTTCCTTTC	TCTTTTTACA	TAATACAATT	8460
PTAAAATTCC	ATTGAAACAG	TTGTCTCTAT	AGAGTAGGAA	TTCCTGAAGA	ACAGCTTAGG	8520
rggccttctt	TATCGATGAG	GATGACTTCG	ATGCCCTCCA	AACTTTCGAC	TTGCCAGAGG	8580
ATAGAAGCAG	GTCTTTCTCC	AAAGAGTCGA	GTCGTCCAGA	TTTCGCCATC	GACTGATTTA	8640
<b>PCAGAGATGA</b>	TTGTTAGACT	CGCTAGTTCC	GTTTCAACAG	GATATCCTGT	TTGACTGTCA	8700

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AAAATGTGAT	GGTAATCTTG	TCCATCGACG	GTCAGGTGAC	GTTCATAAAT	GCCTGAAGTC	8760
ACGACAGATT	TATTGACAAC	AGGGATGGTC	ATTAAATGAT	TTCCCCTAGG	ATTGGCTGGG	8820
TCTTGAATCC	CGATTTGCCA	TGGGTTATCC	CCTCTTGCCT	GATTTTTTCC	AATGGTCAGG	8880
ATATTCCCTC	CCAGATTGAT	CAAGGCAGAA	GTCACCCCCT	CTTTCCTAAG	AAATTGGGCA	8940
ACCTTATCCG	CACTGTATCC	TTTGGCTAAA	CAACCTAGAT	CGATCTTCAT	TCCTTTCTGT	9000
TTTAAAAAACA	CAGTAGAAGT	AGAAGAATCT	AACTCGATAC	CATGAGGATT	GATTAGAGGC	9060
AGCACCGATT	CAATTTCTTG	AGGCTGGGCG	ACCTTGGCAT	CTGAAAAACC	GATACGCCAG	9120
GTTTGAATTA	AGGGACCAAT	GCTGATATTG	AGGTGGCTAG	AGAGCGCTAG	GCTATGCTCT	9180
AACCCAAGTG	AAATCAGCTC	AAACAGGTCT	GGATGAACCG	TGACGGGGGC	TATTCCTGCT	9240
TGATAATTGA	TTTCCATCAA	CTCAGATTCT	TGACTATTGG	CGTTGAAGCG	GTATTCAAGT	9300
TCTTTGAGCA	AGTCAAAGGA	TTTTTGGAGA	AAGATATCGG	CTTGCTCATC	CACTAATGAA	9360
ATAGTGATAG	TAGTCCCCAT	TAGCCGTTCA	GAATGTGAAC	GAAGAGTCAA	GCTACCAACT	9420
CCTTTCTCTT	ATAGAAAATA	AGTTGTAATA	TCAAATAATC	<b>ATCTAAATT</b> G	AAGCCCTTAC	9480
ATTTCATTTT	CATGTTATTA	TAATACCATA	AAGTTAGAAT	TTTCACAAAC	AAAATTTGGA	9540
AAAAGTCAAG	AAATATGCTC	ATAAAATTCA	TCAGGCTTGA	AAACAGGATA	AATGGGGAAT	9600
TATTTTTGAT	AAAAAATGCT	GAAATAATAG	TACCCCCCTT	GTAAACGCTA	ACGGTAAATG	9660
GTATACTAGT	AAGGTAAATT	TAGAATGAAG	GCAGGAAATT	TTTATGAGTA	AAATCGTTGT	9720
AGTCGGTGCT	AACCACGCTG	GTACAGCATG	TATCAATACC	ATGTTGGATA	ATTTTGGAAA	9780
TGAGAACGAA	ATTGTTGTAT	TTGACCAAAA	CTCTAACATC	TCTTTCCTAG	GATGTGGAAT	9840
GGCTCTTTGG	ATTGGTGAAC	AAATTGACGG	TGCTGAAGGC	TTGTTCTATT	CTGATAAAGA	9900
AAAATTGGAA	GCTAAAGGTG	CTAAAGTTTA	CATGAACTCA	CCTGTTCTTT	CAATCGACTA	9960
TGATAACAAA	GTAGTTACAG	CGGAAGTTGA	AGGAAAAGAG	CACAAAGAAT	CATACGAAAA	10020
ATTGATTTTC	GCTACAGGCT	CTACACCAAT	CTTGCCACCA	ATCGAAGGTG	TTGAAATTGT	1.0080
TAAAGGAAAC	CGCGAATTTA	AAGCAACTCT	TGAAAACGTA	CAATTCGTGA	AATTGTACCA	10140
AAATGCTGAA	GAAGTTATCA	ATAAACTTTC	TGACAAGAGC	CAACACCTCG	ACCGTATCGC	10200
CGTTGTTGGT	GGTGGTTACA	TCGGTGTTGA	ACTTGCTGAA	GCCTTTGAAC	GTCTTGGAAA	10260
AGAAGTTGTC	CTTGTTGATA	TCGTTGATAC	TGTCTTGAAC	GGTTACTATG	ACAAAGACTT	10320
CACACAAATG	ATGGCGAAGA	ACTTGGAAGA	TCACAACATC	CGCTTGGCTC	TAGGTCAAAC	10380
TGTTAAAGCA	ATCGAAGGTG	ACGGTAAAGT	TGAACGCTTG	ATTACTGACA	AAGAAAGCTT	10440

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TGACGTGGAT	ATGGTTATCC	TTGCAGTTGG	TTTCCGTCCA	AACACAGCCC	TTGCAGGTGG	10500
TAAGATCGAA	CTCTTCCGCA	ACGGTGCCTT	CCTTGTAGAC	AAGAAACAAG	AAACATCTAT	10560
CCCAGACGTT	TACGCTGTTG	GTGACTGTGC	GACTGTTTAT	GACAATGCTC	GTAAAGATAC	10620
AAGCTATATC	GCTCTTGCTT	CAAATGCTGT	GCGCACTGGT	AACGTTGGT		10669

#### (2) INFORMATION FOR SEQ ID NO: 58:

# (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 7542 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 58:

CGCGCTAATA GATACTTTAT GATAGAATAA AGAACAAGAT TGACAAGTAA GAGGAAACAT 60 TATGCAAAAT CAAACACTCA TGCAATACTT TGAATGGTAT CTGCCCCACG ACGGTCAACA 120 CTGGACGCGT CTGGCTGAAA ATGCTCCACA CCTAGCTCAT CTGGGGATCA GTCACGTCTG 180 GATGCCACCA GCCTTCAAGG CAACCAACGA AAAAGATGTC GGCTATGGGG TCTATGACTT 240 ATTTGACTTA GGAGAGTTCA ACCAAAAAGG GACTGTCCGC ACCAAGTATG GTTTCAAAGA 300 AGACTATCTT CAAGCCATTC AAGCCCTTAA AGCACAGGGA ATTCAACCTA TGGCCGATGT 360 AGTTCTCAAC CACAAGGCTG CTGCCGATCA CAGGGAAGCC TTTCAGGTTA TCGAAGTTGA 420 TCCTGTAGAC CGTACAGTTG AACTTGGAGA ACCCTTCACC ATCAATGGCT GGACTAGTTT 480 TACCTTCGAT GGTCGCCAAG ATACCTATAA TGGCTTCCAC TGGCATTGGT ACCACTTCAC 540 CGGTACAGAC TACGATGCCA AACGCAGTAA ATCTGGGATT TATCTGATCC AAGGGGACAA 600 CAAGGGCTGG GCCAACGAGG AATTGGTCGA TAACGAAAAC GGAAACTACG ACTACCTCAT 660 GTATGCCGAC CTAGACTTTA AACATCCTGA AGTCATCCAA AACATCTATG ACTGGGCTGA 720 TTGGTTCATG GAAACGACTG GTGTAGCTGG TTTCCGTTTG GATGCCGTTA AGCATATTGA 780 CTCTTTCTTT ATGCGCAACT TCATCCGCGA TATGAAGGAA AAATACGGTG ACGATTTCTA 840 TGTTTTTGGT GAATTTTGGA ACCCAGACAA GGAAGCCAAT CTGGACTATC TCGAAAAAAC 900 GGAAGAACAC TTTGACCTTG TCGATGTTCG TCTCCACCAG AATCTCTTTG AAGCCAGTCA 960 AGCTGGCGCA AACTATGACC TTCGTGGCAT TTTCACAGAT AGCCTGGTTG AACTCAAGCC 1020 TGACAAGGCT GTGACTTTTG TCGACAACCA CGATACCCAA CGAGGACAAG CCCTTGAGTC 1080 TACCGTTGAA GAATGGTTCA AGCCAGCAGC CTATGCCCTC ATTTTGTTAC GCCAAGACGG 1140 CCTTCCATGT GTCTTTTACG GAGACTACTA TGGGATTTCA GGGCAGTATG CTCAAGAAGA 1200

TTTCAAAGAA	ATCCTTGACC	GCCTCCTAGC	CATCCGAAAA	CATTTGGCCT	ATGGAGAACA	1260
AAATGACTAC	TTTGACCATG	CTAACTGTAT	CGGTTGGGTA	CGTTCAGGTG	CTGAAAATCA	1320
ATCCCCAATC	GCAGTCCTTA	TCTCAAATGA	CCAAGAAAAC	AGCAAGTCAA	TGTTTGTCGG	1380
TCAAGAATGG	ACTAATCAAA	CCTTTGTAGA	TTTACTTGGT	AACCACCAAG	GTCAAGTTAC	1440
AATTGATGAG	GAAGGTTATG	GACAATTCCC	TGTCTCAGCT	AGATCCGTAA	GTGTCTGGGC	1500
AGTCAATACC	ATCTAATAGC	TCATAATAAC	CAAGCTAGGT	CCAAGCGGAT	TTGGCTTTTT	1560
TGTATTCACA	AAAAGACCTA	CCCAAATGGA	TAGATCTTTA	CTTGATTACA	ATTTACCTGC	1620
TACTGCATCC	AACAATTCTT	GGATCTTAGG	TTGGTTGCTT	CCTCCTGCCA	TGGCCATATC	1680
TGGTTTACCA	CCACCACGTC	CATCGATGAT	TGGTGCTAAT	TCTTTGACAA	GGTTTCCTGC	1740
ATGAAGGTCT	TTTGTCTTGC	TTGCTACAAG	GACATTGACT	TTGTCACCGA	TAGCGGCAAC	1800
TAGGACAAGA	AGATCAGAGT	AGTCTTTTTG	TTTCCAGTTA	TCTGCAAAAG	TACGAAGGC	1860
ACCGGCATCG	GATACAGACA	CTTGACTAGC	AATGTAACGA	TGACCGTTGA	CTTCCTTAAC	1920
ATCTTTGAAG	ATATCGCCTG	CGGCTGCAGC	TGCGGCTTTT	TCTTTCAACT	CAGCATTTTC	1980
TTTTTGAAGT	TGACGAAGTT	GTTCTTGAAG	TCCTTCTACC	TTGTGAGGTA	CTTCCTTGAC	2040
TTGAGGTGCT	TTCAAGGTTG	CTGCGATAGC	TTTAAGAGCA	TCCTCTTGTT	CACGATAGGC	2100
TTCAAAGGCT	TCCTTACCAG	TCACTGCCAA	GATACGGCGA	GTTCCTGAAC	CGATTCCTTC	2160
TTCTTTGACA	ATTTTGAAGA	GACCAATCTC	AGAAGTGTTG	TCAACATGAG	TACCACCACA	2220
AAGTTCAATA	GAGTAGTCAC	CGATAGTCAC	GACACGAACT	TCCTTGCCGT	ATTTCTCACC	2280
AAAGAGGGCC	ATAGCTCCCA	TTTCTTTAGC	AGTGTCAATA	TCCGTTTCAA	CTGTCTTCAC	2340
TTCAAGTGCT	TCCCAAATTT	TCTCGTTAAC	TTGCTGTTCA	ATCGCACGAA	GTTCCTCAGC	2400
AGTTACTGCT	TGGAAGTGGG	TAAAGTCAAA	GCGAAGGAAT	TCAACTTCGT	TAAGAGATCC	2460
TGCCTGTGTT	GCGTGGTTTC	CAAGGATATT	GTGAAGGGCA	GCGTGAAGCA	AATGAGTCGC	2520
AGTGTGGTTT	TTCATGACAC	GGTGACGGCG	ATTGCTATCA	ATTGCCAAGG	TATATTCTTG	2580
GTTCAAGGCA	AGCGGTGCAA	GGACTTCAAC	TGTATGAAGG	GCTTGACCAT	TTGGGGCTTT	2640
CTGAACATTG	GTCACAGTAG	CCACAACCTT	ACCTGACTCA	TCCAAGATTT	GTCCGTAGTC	2700
AGCTACCTGT	CCACCCATTT	CAGCATAAAA	TGACGTTTCC	GCAAAGATAA	GAGAGGCAGT	2760
TCCTTCTGAA	ACAGCTCCTA	CTTCTGCATT	GTCAGCAACG	ATAGCTACCA	ATTTAGAAGA	2820
CAATTGGCTA	GCATTGTAGT	TGAAGACACT	TTCTACAGTG	ATGTTTTGAA	GAGTTTCATT	2880
TTGCATACCC	ATTGAGCCAC	CCTTGACAGC	TGACGCACGC	GCGCGTTCTT	GCTGTTCTTT	2940

			512			
CATGGCTGCT	TCAAAACCTT	CACGGTCTAC	AGTCATACCA	GCTTCTTCAG	CGATTTCTTC	3000
AGTCAATTCA	ACTGGGAACC	CATAAGTATC	ATAGAGTTTG	AAGACATCTG	AACCAGCGAT	3060
AACAGATTGA	CCTTTTTCTT	TCAAGTCTGC	TACAATGCCT	TGGGCAAAGT	GTTGACCTGA	3120
GTGAAGGGTA	CGGGCAAATG	ATTCTTCTTC	GCTCTTAACG	ATTTTCTCAA	TAAAGTCACG	3180
TTTCTCAAGC	ACTTCTGGGT	AGTAGCTTTC	CATGATTTT	CCAACAGTTG	GAACCAATTT	3240
GTAAAGGAAA	GGCTCGTTGA	TACCCAATTT	TTGACCATGC	ATAGAAGCAC	GACGGAGAAG	3300
ACGACGAAGA	ACATAACCAC	GACCTTCATT	TCCTGGAAGG	GCACCATCAC	CGATAGCAAA	3360
TGAAAGAGAA	CGAATGTGGT	CTGCGATAAC	CTTGAAGCTC	ATGTTGTCGC	CATCTTGGTC	3420
ATAAACCTTA	CCAGACAATT	TCTCGACTTC	ACGGATAATC	GGCATGAAGA	GGTCCGTTTC	3480
AAAGTTGGTC	TTAGCCCCTT	GGATAACGGC	CACCAAACGC	TCCAAACCAG	CGCCCGTATC	3540
AATGTTCTTA	TGTGGCAATT	CCTTGTATTC	GCTACGAGGA	ACAGCAGGGT	CTGCGTTAAA	3600
TTGTGACAAA	ACGATGTTCC	AGATTTCAAT	ATAACGGTCG	TTTTCAATAT	CTTCTGCAAG	3660
CAGGCGAAGA	CCGATATTTT	CTGGGTCAAA	GGCTTCCCCA	CGGTCAAAGA	AGATTTCTGT	3720
ATCTGGTCCA	GAAGGTCCCG	CACCGATTTC	CCAGAAGTTG	TCCTCAATTG	GAATCAAGTG	3780
ACTTGGATCC	ACTCCCACTT	CAATCCAGCG	GTTGTAAGAA	TCTTTATCGT	CTGGATAGTA	3840
GGTCATGTAA	AGTTTTTCAG	CAGGGAAATC	AAACCATTCA	GGGCTTGTCA	AAAGCTCATA	3900
AGCCCAAGTG	ATAGCTTCGT	CACGGAAGTA	ATCCCCGATA	GAGAAGTTCC	CCAGCATTTC	3960
AAACATGGTA	TGGTGACGCG	CGGTCTTCCC	TACGTTTTCG	ATGTCGTTGG	TACGGATAGC	4020
CTTTTGGGCA	TTGGTAATAC	GTGGATTTTC	AGGGATAATG	GTCCCGTCAA	AGTATTTCTT	4080
AAGGGTTGCT	ACCCCAGAGT	TGATCCACAA	AAGAGTTGGG	TCATTTACAG	GAACCAAACT	4140
TACTGATGGT	TCTACTGAGT	GACCTTTGGT	CGCCCAGAAA	TCAAGCCACA	TTTGGCGTAC	4200
TTGTGCACTA	GATAGTTGTT	TCATATTGTC	TCCTTATTCA	CTTGTTTAAT	GTGATTGGCT	4260
TTCCAGCATT	TCCACATAGT	CAATCGCGAC	ACAGAGGGAA	ATGACTAGGT	CTGCATAAGC	4320
GTCTTCAAGA	ACCGTTACGG	TATAGGTAGA	AGTCAGATGG	AAGAGTTCCT	TCTTAATTTC	4380
CGCAATCAAC	TGATCGCGAT	CATCCAGCAA	TTTGAAATTC	ÄAATCCCAGA	TATTGCCCTC	4440
GATACGAAGA	CCTAGATTAT	CAAACTCATA	CTTATCTCGC	CAGAAGGTCA	ACTTCTTACG	4500
aatgacaaaa	CTCGAGCCAT	CCCGAAGCTG	AATTTCAAAA	CGAGGAAGCA	AGGTCAAGAT	4560
ттстттаста	ATCTCACTGA	CTTGTTCACC	AGCCGCATCA	TAGATGGTAA	AGGTTTTAGG	4620
AATCTTAAAA	AATGATCCCT	CCACCTGATA	GGCAATTTCT	CCCCTGTCAT	CCTTGATAGC	4680
GAAGCGTTCG	CCTCCAAGAC	GAAACTTTTG	TTTGACAAGA	AATGTTTTCA	TCAACACCTC	4740

CAAAAA	TCAA	AAGACAAGCT	CATATCACGA	AGGGCGAAAA	ACCGCGGTAC	CACCTTCATT	4800
CAATGA	ACTT	GTCATTCTCT	TGTTCTTATG	CAATTGTATG	ATTGAGTAGC	ATGACTTCCT	4860
AGCTTA	GATG	GCTCGCAGCA	CCGCCATTTC	TCTGGACTAA	GACAAGTGAA	AATCAATTCT	4920
CAACTT	TCTT	ATTATAACGT	TTTTTAAGC	TTGCGTCAAC	TGGAAATGAT	CTCCGTTGAA	4980
TTAGAC	CAAT	TCCCTACATC	TCTGATTACT	TTTTCAGGAT	ATATTTTTC	TTACTGCCAT	5040
PTTTCT	TTTT	ATCCCAAATT	TTCATATTAC	TAAACACAGC	TACTAGAATA	TTTCCAAATA	5100
raaagg	TGCC	TATCACCCAA	TATATGGACT	CAGTTGTTAG	GTATTGTCGA	TCCAAGCCAT	5160
CCTTTA	aatg	GAATAGTATA	GCAGTTTGGT	TAACAATCAT	AAAGGTTGGC	CAGAAACTTT	5220
PTTTGA	AAAA	AGTAGACATT	TTCATTATTT	GTTGCCGCTT	TCTGTAAGGT	ТААТАСТСАА	5280
AAAAT	TCAA	AAAGCAAACT	AGGAAGCTAG	CCTCAAGCTG	TACTTGAGTA	CGGCAAGGCA	5340
ACGCTG.	ACGT	GGTTTGAAGA	GTATAGGCTT	AGTATACTAC	TAGGCAAGCA	ААТАААСААА	5400
ГАААСА	ACTA	GAATAGAAAA	AGATAGGGCT	CTAAAAACTG	ACTTCTATTC	CTTAAAAACG	5460
AACCAG	CTTG	ACTGATTCGT	CTTCTTACGT	TTATCTCCTA	CTTCCGATAC	ATTTTAAACT	5520
GTAGGA	AGAG	GTCGCTATAT	TTCCCTGTCC	ATTTATGGTC	AAATTTCTCA	TAAACTTCTA	5580
GGTGTT	TCAT	GGTTTCAACA	TCGGGATAGA	AGGCCTTATC	TTCCTTTGTT	TCCTCTGGGA	5640
GCAATT	CCTT	CGCTGGTAGG	TTTGGTGTTG	AATAGCCGAC	ATACTCCGCA	TTTTGGAGAG	5700
CATTTT	CAGG	TTTCAACATA	AAGTTGATAA	AGGCATAGGC	TGAGTTTTGG	TTTTTAACTG	5760
<b>PTTTGG</b>	GAAT	GACCATATTG	TCAAACCAAA	GATTGCTGGC	CTCTGTCGGT	ACCACATAAC	5820
GTAGAT	TTTC	ATTTTTTCT	AACATTTGGC	TGGCTTCACC	AGAGAAGGTC	ACGCCGATTG	5880
CAACAT	TATT	CTGAATCATA	TAGCCCTTCA	TCTCGTCCGC	AACGATAGCC	TTGATATTTG	5940
GAGTCA	GTTT	GTAGAGCTTA	TCCACTGTCT	CTTCCAACTG	CTGCAGATCC	TTGGAGTTGA	6000
GCTGT.	AGCC	GAGGGAATTG	AGTCCTAGTC	CCAGCACCTC	ACGCGCCCCA	TCAAAGAGCA	6060
rgatag.	AATT	CTTATACTCC	GGCTTCCAAA	GGTCATCCCA	ATGCTCAGGC	GCTTCATCTA	6120
CCATGG	TTTC	GTTGTAGACA	ATTCCTAAGG	TTCCCCAGAA	GTAAGGGATG	GAGAATTTAT	6180
PACCTG	GGTC	AAAGGACTGG	TTGAGAAACT	CTGGTCCGAT	ATTTTCGATT	CCTTCAATTT	6240
PTGAAT.	AATC	AAGCGGAACC	AAGAGGTCTT	CGTCCTTCAT	CTTGTTAATC	ATGTATTCAC	6300
PTGGAA	TGGC	AATATCGTAG	GTCGTTCCAC	CCTGCTTTAT	CTTAGTGTAC	ATGGCTTCGT	6360
PGGAGT	CAAA	AGTCTCGTAC	TGAACTTGAA	TTCCTGTTTC	TTCTGTAAAC	TGAGTCAAGA	6420
<b>շ</b> ጥጥር ልር፡	ОТИО	CATATACTCT	ССССАСТТАТ	АСАТААССАА	<b>ተተጥጥጥ</b> GACጥል	<b>ТСТССАСТАТ</b>	6480

			514			
TGATTTTACT	ATCTAAATGA	GTCGCAATTC		AAGGATAATC	GCTGCAATTC	6540
CTGCTAAAAA	TGAATAGATT	TTTTTCATGC	TTGCTCCTCC	TTCTCACGAG	AGATAAAGTA	6600
ATAACCTACA	ACTAGGATAA	TACTAAAGAG	AAAGACTAGA	GCAGACAGGG	CATTGATTTC	6660
TAAGGAAATC	CCCTTGCGAG	CACGAGAGTA	AATCTCGACT	GATAGGGTTG	AAAAGCCATT	6720
TCCTGTTACA	AAGAAGGTCA	CGGCAAAGTC	ATCTAACGAA	TAGGTGAAGG	CCATGAAATA	6780
ACCAGTAATG	ATAGACGGAG	TCAGGTAAGG	AAGCATGATT	TCCTTGAACA	TCTGAAATTG	6840
ACTAGCTCCC	AAGTCATAGG	CCGCATGAAT	CATGTCGCCA	TTCATTTCCT	TGAGTCGAGG	6900
CAAGACCATC	AAGACCACGA	TAGGAATGGA	GAAGGCCACG	TGACTAGATA	GAACGGTCAA	6960
AAAGCCAAGT	GAAAACTTGA	GTTGGGTAAA	GAGAATCAAG	AAGCTAGCAC	CAATCATAAC	7020
GTCAGGCGCA	ACCATGAGGA	TATTATTGAG	TGATAGAAAG	GCTTCTTGGT	ATTTCTTACG	7080
agactggtag	ATGTAAATGG	CACCAAAAGT	CCCGATAATG	GTCGCTATCA	AGGCTGATAG	7140
GAAGGCCAAG	AAAAATGTCT	GAGCCAAAAT	CAGCATGAGT	CTCCCATCTC	CAAACATGGT	7200
TTCAAAGTGA	GTCCAGCTAA	AACCTGTAAA	GCTATTCATA	TCATCACCAG	CATTAAAGGC	7260
ATAGCCAATC	AAGTAAAAGA	TAGGCAGGTA	GAGGACCAGA	AAGACCAGTC	CCAGATAAAG	7320
GTTGGCAAAT	TTTTTCATCG	TTCTCTCCTT	TCCTTAGTCA	CCCACATGGT	GATGAACATG	7380
GTCAGGATGA	GAATCACACC	GATGGTTGAA	CCCATACCAT	AGTTGTCATT	GGTTAGAAAA	7440
ITCTGCTCAA	TAGCCGTCCC	CAAGGTGATA	ACGCGTTCCC	ACCAATCAAA	CGGGTCAGCA	7500
rgaagagact	CAAACTTGGG	ATAAAGACCG	ACTGAACCCC	GG		7542
/2\ TNEODW	MTON BOD CI	0 TD NO. EC	١.			

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 9223 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double
   (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 59:

AAAACCAAAT	TCCGGTATTT	TAACCTATGC	TGTAAATACC	ATGAAGTCTG	TCATGACAGA	60
TCAGGTCTAT	AACATTAAGG	TTGAGACAGA	AAATGGAAAT	TATGTTGGTG	AAGCTAGCCA	120
TGTTTTGGTC	CTTTTGACAA	ATTACTTCGC	TGATAAGAAA	ATCTTTGAAG	AAAACAAGGA	180
CGGCTATGCC	AACATTTTGA	TTCTGAAAGA	TGCCTCTATA	TTCTCCAAAT	TATCCGTCAT	240
TCCTGATTTA	TTAAAAGGGG	ATGTTGTCGC	AAATGATAAT	ATCGAGTATA	TCAAAGCGCG	300
ТААТАТТААА	ATCTCTTCAG	ATAGTGAATT	GGAGTCAGAT	GTTGACGGAG	ATAAATCAGA	360

TAACO	TACCT	GTAGAAATCA	AAGTCCTAGC	TCAGCGAGTA	GAAGTATTTT	CAAAACCGAA	420
AGAGO	Gattag	TATATAGAGA	AAGCCTTTTT	TAAGGCTTTT	TGTATACTTT	AAAAGATAGT	480
rccti	TAACA	ACGGACATTC	CTTGCAAATA	GTTTTACAAA	AATAGTATAC	TGGATTCATT	540
GAGTT	PTGAAA	ACGTTTGCGT	AAAATTTGAA	TGAATACTTT	AGGAGACAAA	TTGATGGAAT	600
TGAGT	<b>TGCTAT</b>	TTACCATAGG	CCTGAGTCGG	AGTATGACTA	TCTTTATAAG	GATAAGAAAC	660
rccan	TATTCG	AATTCGAACT	AAGAAAGGGG	ACATTGAAAG	CATCAACTTG	CACTATGGGG	720
ACCCI	TATTT	CTTTATGGAG	GAGTTTTATC	AGGATACAAA	AGAAATGGTC	AAGATAACTT	780
CTGGT	TACCTT	ATTTGACCAT	TGGCAGGTTG	AAGTGTCAGT	TGACTTTGCA	CGTATCCAGT	840
ATCTO	TTTGA	GCTCAGAGAT	ACAGAAGGTC	ААААТАТТТТ	GTATGGCGAT	AAAGGGTGTG	900
TGGAA	AATTC	TCTAGAAAAT	CTTCATGCAA	TTGGGAATGG	ATTTAAGTTG	CCTTAGCTTC	960
ATGAC	Sattga	TGCCTGCAAG	gttcctgact	GGGTTTCAAA	TACGGTATGG	TATCAGATAT	1020
TTCCI	rgaaag	ATTTGCCAAT	GGCAATGCTC	TATTAAACCC	AGAAGGGACT	TTAGACTGGG	1080
ATTC!	ATCTGT	CACACCTAAG	AGCGATGATT	TCTTTGGTGG	TGATTTACAG	GGGATTATTG	1140
ATCAT	TATGAA	TTACTTGCAA	GACTTGGGTA	TTACTGGACT	ATATCTTTGT	CCCATCTTTG	1200
AATCI	PACAAG	CAATCACAAG	TACAATACGA	CAGATTACTT	TGAAATTGAC	CGTCATTTTG	1260
GAGAC	CAAGGA	GACCTTTCGG	GAACTGGTGG	ATCAAGCGCA	TCATCGTGGC	ATGAAAGTCA	1320
rgcto	GATGC	GGTATTTAAT	CATATTGGTT	CGCAATCTCT	TCAATGGAAA	AATGTCGTCA	1380
LAAAA	rggtga	ACAGTCTGCT	TATAAGGATT	GGTTCCATAT	TCAACAATTC	CCAGTGACAA	1440
CTGA	VAAGCT	AGTTAATAAG	AGAGACTTAC	CCTATCATGT	TTTTGGTTTC	GAGGACTATA	1500
rgcc1	TAAGCT	AAATACAGCC	AATCCAGAGG	TCAAGAATTA	TCTTTTAAAG	GTTGCGACTT	1560
ATTGO	SATTGA	AGAGTTTAAT	ATCGATGCTT	GGCGTTTGGA	TGTGGCTAAT	GAGATTGACC	1620
ATCAC	TTCTG	GAAGGATTTT	CGTAAGGCAG	TTTTAGCTAA	AAATCCTGAT	CTTTATATCC	1680
PAGGA	GAAGT	CTGGCATACA	TCTCAGCCTT	GGCTAAATGG	AGATGAGTTC	CATGCCGTCA	1740
igaa1	TATCC	TTTATCTGAT	AGTATCAAGG	ACTATTTCTT	ACGAGGAATT	AAGAAGACAG	1800
ACCAG	STTCAT	CGATGAAATC	AATGGAGAGT	CTATGTATTA	CAAGCAGCAG	ATTTCAGAGG	1860
CATO	STTTAA	TCTCTTGGAT	TCACATGATA	CAGAGCGAAT	CCTGTGGACG	GCCAATGAAG	1920
atgt1	CAACT	GGTTAAATCA	GCCTTAGCCT	TTCTCTTTTT	ACAAAAAGGA	ACACCGTGCA	1980
PTTAI	TACGG	AACCGAGCTA	GCCTTGACTG	GAGGACCAGA	TCCAGATTGT	CGTCGTTGTA	2040
ייכררייו	тссса	ACCTCTATCA	ACTICACAATIC	ስመስጥርርጥር እስ	ന്നുന്നു സ്ഥാ മറ	ACCOMONON	2100

			516			
AAATTCGGAA	ATACGCGTCA	GTAATCATTT	CGCATGGCAA	GTATAGCCTT	CAAGAAATCA	2160
ACTCTGATCT	AGTAGCTCTG	GAATGGAAAT	ACGAAGGACG	GATCCTCAAA	GCAATATTCA	2220
ACCAATCAAC	AGAAGATTAT	CTTTTAGAGA	AAGAAGCAGT	AGCACTAGCA	AGCAATTGCC	2280
AAGAATTGGA	TAATCAGCTT	GTCATCTCTC	CAGATGGATT	TATGATTTC	TAAAAACTAG	2340
ITGATGAAGA	TTATGGTACA	TTTCATACCT	TATATAGTAT	AATAAGGCTA	GTTACTAAAC	2400
PTGTAAAGGA	GAACTTAAAT	GAATTGTAGA	GGACATGAAA	CAAGACAAAG	AATTGTTAGA	2460
Gattttgaag	TTCAGCCTAA	AGCACATATT	AAGCTGTTAG	CAAATCAACA	AAAACATAGT	2520
GATGCAGGAG	CAACTATTGA	AGATGAATAT	TATGTATTTA	TCGCTGAGAG	TAAAATTGAT	2580
GGCAAGAAGG	AAGTTATTCA	GTGTTGCATG	GGTGCGGCAA	GGGATTTTTT	AGAACTAATT	2640
AATCACAAAG	GGCTACCTCT	TTTTAATCCG	CTTGTAGGTG	ÁTTCTCATGT	AAATAATAGA	2700
CAAGAATATG	ACAATACAGG	GAGTGGAAAT	TTATAACCTG	AAAAGTGGAA	TGAAACTGCA	2760
AAGCAGCTTT	ATAATGCTAT	AATGTGGTTG	ATTATTTTAT	GGAATGCTAA	GCCGGATACA	2820
CCTTTATTTA	ATTTTAAAGA	CGAAGTAATT	AAGTATAAAA	CATATGAGCC	TTTTGAAAGC	2880
AGTATAAAAA	GAGTAAATAC	TACTATAAAG	AATGGTAGTA	AAGGGAAAAC	TCTGACTGAG	2940
ATGATTAATG	GCTACAGAGC	GGATAACGAT	ATTAGAGATG	AAATTTGTAA	СТТТААТАТТ	3000
CTGAAAAATA	AAATTCGTGA	TATGAAAAAC	CAACAAGGAA	ATACAATGGA	ATCTTACTTT	3060
PAGTTATTGT	TGAATTTTGG	GTATTCTATA	AAATATCCTA	ATTGAGATTT	AAATAGTAGA	3120
CTATACAATA	TAGTTAAAAT	ATCAGTAAAA	ACAACACTTT	ATTGAGGTAT	TGGATACGCT	3180
PTGCTAATAG	CCTAATAATC	ACATGTGGAG	TGTTGCTACA	ACGAAAAAGG	TGATAATCCT	3240
rgatttcaag	CTATTTTATA	AGCATTTTGT	CTTTGTAGAT	AAAGGCAATT	TTGACAATAA	3300
AAATCCTAAA	AGGTGAATCG	TTATAGATGT	ATTTGTAGAT	ATCGTTTGCG	CATCGAAAAA	3360
<b>ЧТТААТАСАА</b>	GAATAAATAT	TTATAGCTCT	TTAGGTGACT	TTTATAGAAG	TAAAGTTTAG	3420
GATAGAAAAA	CAAGAAATAA	CGCACCATTT	TTGGTGCGTT	ATGCTTTTTT	ATGCTATAAT	3480
GGATTTATAA	AAATAAAGGA	GTTTGCTATG	ATTGGAAAGA	ACATAAAATC	CTTGCGTAAA	3540
ACACATGACT	TAACACAACT	CGAATTTGCA	CGGATTGTAG	GTATTTCACG	AAATAGTCTG	3600
AGTCGTTATG	AAAATGGAAC	GAGTTCAGTC	TCTACCGAAT	TAATAGACAT	CATTTGTCAG	3660
AGTTTAATG	TATCTTATGT	CGATATTGTA	GGAGAAGATA	AAATGCTCAA	TCCTGTTGAA	3720
Gattatgaat	TGACTTTAAA	AATTGAAATT	GTGAAAGAAA	GAGGTGCTAA	тстаттатст	3780
CGACTCTATC	GTTATCAAGA	TAGTCAGGGA	ATTAGCATTG	ATGATGAGTC	TAATCCTTGG	3840
ATTTTAATGA	GTGATGATCT	ATCTGATTTG	ATTCATACGA	ATATCTATCT	AGTAGAAACT	3900

<b>TTTGATGAAA</b>	TAGAGAGATA	TAGTGGCTAT	TTGGATGGAA	TTGAACGTAT	GŢTAGAGATA	3960
rctgaaaaac	GGATGGTGGC	CTAATGGAAA	TCCAAGATTA	TACTGATAGT	GAATTCAAAC	4020
ATGCTTTAGC	AAGGAATCTT	CGTTCACTGA	CAAGAGGAAA	AAAGTCCAGT	AAGCAACCTA	4080
PAGCGATTTT	GCTTGGAGGG	CAAAGTGGTG	CCGGTAAGAC	TACAATTCAT	CGTATTAAAC	4140
AGAAAGAATT	TCAAGGAAAT	ATTGTTATCA	TAGATGGTGA	TAGTTTTCGT	TCTCAGCATC	4200
CACACTATTT	AGAACTGCAG	CAAGAATATG	GCAAAGACAG	TGTAGAATAT	ACCAAAGATT	4260
TTGCAGGAAA	AATGGTAGAG	TCTTTAGTAA	CAAAATTGAG	TAGTTTGAGA	TACAATCTTT	4320
rgatagaggg	AACTTTACGA	ACAGTTGATG	TTCCAAAGAA	AACAGCACAA	CTCTTGAAAA	4380
ATAAGGGATA	TGAAGTACAA	TTGGCCTTAA	TTGCGACAAA	GCCTGAATTG	TCGTATCTAA	4440
GTACTCTTAT	CCGTTATGAA	GAACTGTACA	TTATCAATCC	AAATCAAGCA	CGCGCAACTC	4500
CAAAAGAACA	TCATGATTTC	ATTGTAAATC	ATCTAGTTGA	TAACACACGA	AAATTGGAAG	4560
<b>AACTAGCTAT</b>	CTTTGAAAGA	ATTCAAATTT	ACCAACGAGA	TAGAAGTTGT	GTATATGATT	4620
CAAAAGAAAA	TACAACTTCA	GCAGCAGATG	TTCTTCAAGA	GTTACTCTTT	GGGGAGTGGA	4680
STCAGGTAGA	GAAGGAGATG	TTGCAGGTGG	GGGAAAAGAG	ACTTAATGAA	TTACTTGAAA	4740
AATAAACAAT	TGATATTTTT	AGGAGAATAG	AAATGAGAGG	GTTTAATAAC	AAGATAAAGT	4800
CTGTTTATCA	AGAACTAACA	AATTCCAAAG	AGAAATTCGG	TAGCTTTCAC	AAGACTTTAA	4860
PTCATTTGCA	TACACCTGTT	TCTTATGATT	ACAAGCTATT	TTCTAATTGG	ACTGCAACGA	4920
AATATAGAAA	AATTACTGAA	GATGAACTAT	ATGATATATT	TTTTGAAAAT	AAGAAAATAA	4980
agttgataa	GACAATTTTT	TTTAGTAATT	TTGATAAGGT	TGTTTTTTCT	AGTTCAAAAG	5040
ATATATTAG	TTTTCTTATG	TTAGCAGAGG	CAATCATAAA	AAATGGAATA	GAAATAGTTG	5100
PAGTAACTGA	TCATAATACT	ACCAAAGGTA	TTAAAAAGTT	ACAAATGGCA	GTCTCAATCA	5160
TAATGAAAAA	TTATCCGATT	TATGATATAC	ATCCTCATAT	TTTACATGGA	GTAGAAATTA	5220
STGCAGCAGA	TAAATTGCAT	ATTGTATGTA	TATATGATTA	TGAACAAGAA	TCATGGGTTA	5280
ATCAATGGTT	AAGTGAAAAT	ATTATAAGTG	AGAAAGATGG	AAGTTATCAA	CATTCACTGA	5340
TATAATGAA	GGATTTCAAT	AATCAAAAA	TAGTTAACTA	TATTGCTCAT	TTCAATAGTT	5400
ATGACATTTT	GAAAAAAGGT	TCTCACTTAT	CAGGTGCATA	TAAACGAAAA	ATTTTTTCTA	5460
<b>AGAAAATAC</b>	ACGATTTTGG	AGTTTAATAT	TAACTCGAAA	GAATCTTCGC	AACAACTTGA	5520
TATTCTCTAT	AAAGAAGTTG	GTGTATTAAG	TTTGGGACAA	AAAGTTGTAG	CCATGCTTGA	5580
ուսի <u>Մ</u> ահանանան	ССУДУДОВСТС	ልጥጥ <b>አጥጥ</b> ርጥ አ አ	ACACTORCACA	ССУДДСУДСУ	TO TO THE PORT OF	5640

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TGAAGACAAT	CTAGACAATC	GTTATATTTA	518 CAGGCATTTA	GTTCAGCAGT	TTAGAGATGT	5700
GAAAGCTCAA	CGTCAAATTA	TTTTAGCAAC	ACATAATGCT	ACAATTGTAA	CAAATTCTAT	5760
GACAGATCAA	GTTGTTATTA	TGGAGTCAGA	TGGAGTTAAC	GGATGGATTG	AATCACAGGG	. 5820
ATATGTTAGT	<b>GAAAAAT</b> ATA	талалалтса	TATCATCAAT	CAATTAGAGG	GAGGAAAAGA	5880
TTCCTTCAAG	CATAAAATGT	CTATATATGA	GACGGCTTTA	TCAGAGTAGA	GTCAGAAAAA	5940
GTAGGTTAGA	AATTTAGCCT	ACTTTTTTCT	TTGTCCGACA	GGCATAGTGT	ACATCTGAGG	6000
TCCAAGTCCT	CTGTGGATAT	TTGCTGCAGA	TGAAACCAAT	AGCGACTCCT	AAGCCTGAAT	6060
ATCGTGAGGT	AGGGGGGATA	GGAAGGAATT	AGCGAAATCA	AGGTTCTACA	AACAGAATCG	6120
TGACTTGAAG	CCATATATAG	CGGATGAĢGA	ACTCTAAAAT	CCAAATAGGT	GTCGTAACCT	6180
ATATACGTAA	ATTACGAGAG	TAAACTAGGA	AAGATGTACG	GCTTATTCCG	TGAGCGTTTA	6240
GGACGTAGTA	CAACGAATCA	TGGGAGTCAG	CTGAACACAT	AGTATTGAAG	AAATTTCTGT	6300
AATGGAAATG	GAGCGAAGAA	GTGAACAATT	AAATGAATAC	CTCTCTAATT	AAATTTGTCA	6360
ATTCTAATTC	CTGGTATGAA	AAGACAGTGA	CCTGAAAATG	TAAACGATGG	GAGCTGATCA	6420
TAAATATAGG	ACGGTACATG	CAGTGGTGTT	AGAGATTAGT	CCTTACTTGA	TTTGTGATAA	6480
CTTCCCCAAA	TTTCTTCTGC	TATACTTTTC	TCAACTTTTA	AAAATCCAAC	TAAGAATTTT	6540
ACCTGGGGGT	TTGGGGGCGG	AGCACTAAGT	TATCTTATCG	TTAGCTGTCA	AAACTGGTAG	6600
GTTTTGATAG	GCTGGCGATA	TGATTTTTGG	GATATTGTGG	ACACAATATC	TGAGCTCGCA	6660
AAGCCTTACA	AGAATGAAAA	TCAGTTGTTG	GAAAAGTGTA	CTGACATTGT	ATGGTAGCTC	6720
ACATTGTCAG	TACAAGTATT	TTGGAAAGGA	AGTAGCAGTA	TGAAACGAGA	TGTGCGTGAT	6780
ATTCGGAAAC	AATTTCGTTT	AACAGAAGCA	GAAGAAAAGC	AAATTCTAGC	TTTGATGAGA	6840
GAGCGGGGAG	AGACTAATTT	CTCTGATTTT	CTTCGTAAAA	GTTTACTTTC	CTCTGATTTA	6900
CAAAAACAGA	TGGAGACATG	GTTTGCCCTC	TGGCAATCCC	AAAAACTAGA	ACAAATCAGT	6960
CGTGACGTTC	ATGAAGTTTT	AATCTTGGCA	CAGTCAGAAC	GTCAAGTCAC	CCAAGAGCAT	7020
GTATCTATTC	TCTTAACGTG	CGTGCAGGAA	TTGATTCAAG	AGGTTGCAAA	CACCATACCC	7080
CTCAGTAAAG	AATTTCGTGA	GAAGTACATG	AGGTAAGCAC	ATGGAACATC	GTTACCGAAC	7140
CAATĆTCAAG	AAAGTGTTTT	TGTCTGATAG	TGAGTTGAAC	CAACTAAATA	TAAATATCGA	7200
TCAAAGTGGT	TGTAAATCCT	TTTCTGAATA	TGCGAGACGA	ACTCTACTCG	ATCCTGGTAT	7260
GAATTTTATC	ACGATTGACA	CAAACGGTTA	CCAAGATTTA	GTGTTTGAGT	TAAAGAGGAT	7320
TGGCAATAAT	ATCAACCAGA	TTGCTCGAAG	TGTTAÄTCAA	TCTCAGTTAA	TTTCTGGTGA	7380
AGAATTGCAG	GAGTTGAAAA	AAGGAATTGG	TGAATTGATA	AAAGAAGTTG	ATAAGGAATT	7440

TAATCTGCAA	GCGCAGAAGC	TAAAGGAGTT	CCATGGTCAT	CACTAAACAC	TTTGCCATTC	7500
ACGGAAAGAG	TTACCGCAGA	AAGCTTATCA	AGTACATTCT	CAATCCTGAG	AAAACCAATA	7560
ATCTTGCCTT	GGTGTCGGAC	TATGGCATGA	AGAATTTTCT	GGACTTTCCT	AGCTATGAGG	7620
AAATGGTGCA	GATGTATCAT	GAAAATTTCA	TCAGCAACGA	TACGCTTTAC	GATTTTCGCC	7680
ACGACAGGAT	GGAAGAAAAT	CAACGAAAA	TACACGCTCA	CCACATCATT	CAGTCTTTCT	7740
CGCCAGAGGA	TCATATCACT	CCTGAACAAA	TCAATCGGAT	AGGTTATGAG	ACTGTGAAGG	7800
AATTAACTGG	TGGCAAATTT	CGTTTTATCG	TTGCGACCCA	TGTTGATAAA	GACCACCTGC	7860
ACAATCACAT	CATTATCAAT	TCAGTAGATA	GCAATTCTGA	CAAAAAGCTC	AAGTGGGACT	7920
ACAAGGTGGA	GCGAAATCTT	CGCATGATTT	CTGACCGTTT	TTCTAAAATC	GCAGGTGCTA	7980
AAATCATTGA	GAACCGCTAT	TCTCACCAGC	GGTATGAAGT	CTATCGTAAG	ACTAATCACA	8040
AGTATGAACT	CAAGCAGCGA	CTCTATTTTT	TGATGGAACA	TTCTAGGGAC	TTTGAGGATT	8100
TCAAAAAGAA	TGCTCCGCTA	CTACATGTGG	AGATGGATTT	CCGTCACAAG	CATGCCACCT	8160
TTTTTATTAC	GGACTCAACT	ATGAAACAGG	TGGTGCGTGG	CAAGCAACTC	AATCGCAAGC	8220
AGCCTTACAC	AGAAGAATTT	TTTAAGAACT	ACTTTGCCAA	AAGAGAAATA	GAAAGTCTCA	8280
TGGAATTTTT	ATTGCTGAAA	GTTGAGAATA	TGGATGATTT	ACTTCAGAAA	GCAAAACTTT	8340
TTGGACTAAC	TATCAATCCT	AAACAAAAGC	ATGTTTCTTT	TCAATTTGCA	GGAGTGGAGG	8400
TAAAGGAGAC	AGAGCTAGAC	CAGAAAAATC	TTTATGATGT	AGAGTTTTTC	CAAGATTATT	8460
TTAAAAATAG	AAAAGATTGG	CAAGCTCCAG	AAACTGAGGA	TTTCGTTCAA	CTTTATCAAG	8520
AAGAAAAGTT	ATCCAAAGAA	AAAGAACTTC	CAAGCGATGA	GAAGTTCTGG	GAGTCCTATC	8580
AAGAGTTCAA	GAGTAACAGA	GATGCCGTTC	ATGAATTTGA	GGTGGAGTTG	TCACTCAATC	8640
AAATTGAAAA	AGTAGTGGAT	GATGGAATTT	ACGTCAAGGT	CAAGTTTGGT	ATTCGTCAGG	8700
AGGGACTTAT	CTTTGTGCCG	AACATGCAGC	TTGATATGGA	AGAGGATAAG	GTGAAGGTTT	8760
TCATCAGGGA	AACCAGCTCC	TACTATGTCT	ACCACAAAGA	CGCTGCCGAG	AAAAATTGTT	8820
ATATGAAAGG	TCGAACCTTA	ATTAGACAGT	TCAGCTATGA	AAATCAAACC	ATTCCATTAC	8880
GCAGAAAAGC	GACAGTCGAT	ATGATTAAAG	AGAAGATTGC	GGAAGTGGAT	GCTTTGATTG	8940
AACTGGAAGT	AGAAAATCAA	TCTTATGTCA	CGATTAAAGA	TGAGTTAGTG	CATGAACTAG	9000
CAGCGTCTGA	ATTGAGAATC	AATGAGTTGC	AAGAACGAAT	GTCAACCTTG	AATCAAGTAG	9060
CAGAATATCT	ACTGGCTTCA	GTTGAAAGTA	AGCAAGAAAT	GAAATTAAAT	CTTTCAAAAC	9120
TGAATATAAC	TGAGAATATC	AGTGCTAATA	TTGTTGAGAA	AAAATTGAAG	AGCCTGGGGA	9180

			520	
ATCAACTGGA	ATTGGAAAGG	GGCAGGTATG	AAAAGATGGT	A

9223

#### (2) INFORMATION FOR SEQ ID NO: 60:

- (i) SEQUENCE CHARACTERISTICS:
  (A) LENGTH: 6827 base pairs
  (B) TYPE: nucleic acid
  (C) STRANDEDNESS: double
  (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 60:

TCTGCTGGCT	ACCATCATCT	GACTTGGGCA	AGACCAAAGT	CTTAGTTACA	ACTGTATTCT	60
TCTCAGCATT	TTCAATAACT	GGCAATGCCG	ACTGAAGCGT	ATCTTTTTCT	GTTTTTGTAG	120
CTGGTCCAGT	TTCTTTTTTC	TGTCCGCAAC	CAACCAGGAC	AAAAAGGAAA	GCTAGACTAA	180
CAAGAACTAT	TTTTTTCATT	TCTTTCTTCT	TTCTTTTTGA	ATTAAAATA	GAATAAGACT	240
GGGAAGTGCT	CCCAGCCTTG	ATGTTTATAG	AGCTGCACGC	AAACGTGCTT	CTGCATTTTC	300
TACATTACGG	ACAGAGCGTG	GTAGGAAGGC	ACGAATATCG	TCTTCCTTGT	AGCCAACTTG	360
CAGGCGTTTT	TCATCTACAA	GGATTGGGCT	CTTTAAAATT	CTCGGTGTTT	CCATAATCAG	420
ATTGAGAACT	TCATTGACAC	TCAAATCTTC	AATATCCACT	CCAAGGGCTT	TGGCATAGCG	480
ATTTTTAGAC	GAAACGATGC	TGGCTATTCC	GTTATCTGTT	TTGGTTAGAA	TATCCAGTAA	540
TTCTTCTCTC	GTAATTCCTT	CTTTACCAAG	GTTTTGTTCT	TTATAACTTA	ACTGGTGGGC	600
ATTGAGCCAG	GTTTTTGCTT	TTTTACAGCT	AGTACAACTT	GAGACTGTAT	TAATTTTAAT	660
CATGTACCTA	CCCCTTTCGC	TACATGTTAC	TATCAGTTTA	GTCTATTATA	CCATAAAAAA	720
CATCCGACTT	GCGACCTATT	TTTAATTTTT	TTTGACTTTT	TTCGTCATTT	TCGTACTTTT	780
TTCTTGACAA	ACAACTAAAT	GACTATCAAC	TCTTTTGGAG	CTAGGGTCAA	TAATTCACAA	840
CCTGTCTCTG	TAATCAGGAT	ATCATCCTCG	ATACGAACGC	CATATTTGCC	TTCGATATAG	900
ATACCTGGTT	CATCGGTCAA	GGCCATACCT	GTCTTAATAG	TTTCTGTAGA	AGTCTGACTA	960
AAGTAGGGTT	CCTCATGGAT	ATCCAGACCA	ATACCGTGGC	CAATGCCGTG	AGTAAAGTAG	1020
TCACCATAAC	CTGCCTCAAT	GATAATATCA	CGAGGGATTT	TGTCAAAGTC	ACGGAAACCT	1080
AAGCCTGCCT	TAGCTTGGTC	AATCAAGGCT	TGGTTAGCTT	TTAGAACCGT	ATTGTAAATC	1140
TCTGCCTGCT	CATCGCTAAC	ATGCCCTAGA	TAGATAGTCC	GGGTCATATC	ACTGACATAG	1200
TGGTCATAGA	GACAGCCGAA	GTCCATGGTG	ATGGCTTCTC	CCAACTCCAC	TGGTTTGTGC	1260
ATTGGATGGG	CATGGGGTTT	AGAAGAATTG	ATACCGCTAG	CTAGGATCGT	ATCAAAAGAT	1320
AAGCCAGATG	CTCCCAACTC	ACGCATGCGG	AAATCAAGGA	AGTTGGCAAT	CTCAATTTCA	1380

GTTTTTCCTG	GTTTGATAAA	GTCAAGCGCA	TCGCGGAAAG	CTTGGTCTGA	GATAGAACAA	1440
GCCTTGCGAA	TCGCTGCAAT	CTCTGCCTCA	TCCTTAATCA	TACGAAGACC	TTCCACAAAC	15Ó0
TGAGTTTGTG	GAAGCAAGTT	CAAACCTGCA	AAAGCTGCCT	GCATACGGTG	GTAATAAGAC	1560
ACTGAAATCT	CATCTTCAAA	ACCGATACGA	GTCAAGCCCA	TGTCCTTAAC	AATTCCTGCA	1620
ATGACAGCCA	ATTCATCACG	ATCAGCCACA	ATCTCAAAAC	CACTGGTTTC	TTGCTTAGCT	1680
GCGATGATAT	AGCGAGAGTC	TGTCACTAAG	ACCTGACGGT	CACGACTGAT	AAAGACTGTT	1740
CCGTTTGAGC	CCCAAAAACC	AGTCAAATAA	TAGACGTTTT	TAAGATTGTT	GATGATGATA	1800
CCATCTAGTT	CTTTTTCTTG	CATTTTAGCT	AGAAATGCTT	GTACGCGTTT	ATTCATGATG	1860
TAACTTTCCT	TTCAAATAGT	GTCCTGTATA	GCTGGCTTCG	TTGGCAGCTA	CTTCTTCTGG	1920
AGTTCCTGTT	ACGATGATGG	TTCCACCACC	GACACCGCCC	TCAGGTCCCA	AGTCAATGAT	1980
ATGGTCTGCC	GTCTTGATAA	CATCCAGATT	GTGCTCGATG	ACGAGGACTG	TATTGCCATC	2040
GTCTACAAAG	CGAGCTAAAA	CCTTGAGCAG	GCGAGCAATG	TCCTCTGTAT	GAAGCCCTGT	2100
CGTCGGCTCA	TCCAGAATGT	AGAAAGATTT	TCCTGTCGAT	CGTTTGTGGA	GTTCGCTAGC	2160
TAACTTCATA	CGTTGGGCTT	CTCCCCCAGA	AAGGGTGGTA	GCTGGCTGTC	CCAAGGTCAC	2220
ATAGCCTAGC	CCTACATCCT	TGATGGTCTG	GAGTTTGCGT	TGAATTTTCG	GAATGTGTTG	2280
GAAAAATTCT	ACCGCATCGT	TGACCGTCAT	ATCCAAGACC	TGCGAAATAT	TCTTTTCCTT	2340
GTAGTGAACT	TCTAGGGTTT	CACTGTTATA	GCGGGTTCCG	TGGCAAACTT	CACAAGCCAC	2400
ATAAACATCT	GGCAAGAAGT	GCATCTCAAT	CTTGATAATC	CCGTCACCTG	AGCAAGCTTC	2460
ACAGCGACCT	CCCTTGACGT	TGAAACTGAA	GCGCCCCTTC	TTGTAGCCTC	GAATCTTGGC	2520
TTCATTTGTC	TGAGCAAAAA	GGTCACGTAT	ATCGTCAAAA	ACTCCTGTAT	AGGTAGCTGG	2580
GTTAGACCTC	GGCGTCCGTC	CGATAGGGCT	CTGGTCAATA	TCAATCAAAC	GGTCGACATG	2640
CTCAATCCCT	GTAATAGTCT	TAAACTTACC	AGGTTTGTCT	GAATTACGGT	TGAGCTTCTG	2700
GGCAATGGCT	TTTTTGAGAA	TGCTGTTGAT	TAGAGTCGAT	TTCCCTGAAC	CCGACACACC	2760
TGTCACTGCG	ATAAATTTTC	CTAGTGGAAA	GCGAGCCGTG	ACATTTTGCA	AGTTGTTCTC	2820
ACGCGCTCCT	ATCACTTCAA	TAAAACGACC	ATTTCCGACA	CGGCGCTCTT	CTGGTACTGG	2880
GATGACACGT	TTGCCTGACA	AGTACTGACC	TGTGATAGAC	TTGCTGTTGC	GAGCCACTTG	2940
CTTAGGTGTA	CCTGCTGCAA	CAATCTCACC	ACCAAAAACA	CCGGCACCAG	GACCAACGTC	3000
AATCAGATAA	TCAGCCTCAC	GCATGGTATC	TTCGTCGTGT	TCCACCACGA	TAAGAGTATT	3060
GCCCAAGTCA	CGCATCTTTT	TCAGACTGGC	AATCAGGCGA	TCATTGTCCC	TCTGGTGAAG	3120

522 ACCGATTGAC GGCTCGTCTA GGATATAGAG GACACCTGAT AGGTTGGAAC CAATCTGGGT 3180 TGCCAAACGA ATGCGCTGAC TTTCCCCACC TGAAAGGGTT CCTGCTGAAC GTGACAGGGT 3240 TAGATAGTTA AGACCCACAT TATTAAGGAA GGTCAAACGA TCCTTGATTT CCTTGAGAAT 3300 GGGACGAGCA ATGA: GGCTT CATTTTCAGA CAAAGTTAAC TGGCTCACCA AGTCCAAGTG 3360 GTCAGCGATA GACAGGTCTG AGATTTCTCC AATATGTGGC CCTTGCTGGC CGCCCACACG 3420 GACAGACAAG GCCTGGTCAT TGAGACGATA GCCTTGACAG GTTCCGCAGG TCAGCTCATT 3480 CATGTAGAGA CGCATCTGAG TGCGAGTGTA ATCGCTATTG GTTTCATGGT AACGACGTTT 3540 3600 GATATTATTG ATAACTCCCT CAAACGGAAT GTCGATATCG CGCACGCCAC CAAATTCATT CTCATAGTGG AAATGGAATT CCTTACCATC TGACCCATAG AGAATCAAGT TCTTATCTTC 3660 TTCTGACAGG TCCTCAAAAG GCTTATCCAT AGCCACTCCA AAGACTTTCA TGGCCTGCTC 3720 TAACATGTTT GGATAGTAGT TGGATGAGAT AGGATTCCAA GGTGCTAGCG CTCCCTCACG 3780 TAAGGTTTTG CTAGCATCTG GCACTACCAA ATCAGTATCC ACCTCCAGCT TGATGCCCAA 3840 GCCGTCACAC TCACTACAAG AGCCAAAAGG AGCATTGAAA GAAAAGAGAC GAGGCTCTAA 3900 CTCTGGGACA GTAAAACCAC AAACTGGACA GGCATAATGC TCAGAGAACA ACAACTCCGA 3960 GTCGTCCATG GTGTCGATAA TGACATAACC TTCTGCAATA CGAAGGGCAG CCTCAATGGA 4020 ATCAAAGAGA CGACTACGAA TGCCCTCCTT GATAACAATA CGGTCAACCA CGACATCGAT 4080 ATTGTGTTGC TTGCTCTTAG ACAACTCTGG CACTTCGGTC ACATCATAGA CTTCCCCATC 4140 CACACGGACA CGAACATACC CGTCTTTCTG AACCTTCTCG ATAACACTCT TATGTTGGCC 4200 TTTTTTCTTG CGGATGACAG GAGCCAAGAT CTGCAAGCGC TGGCGTTCAG GTAACTCCAA 4260 AACCTTATCA ACGATTTGCT CCACAGAAGA AGCATTGATA GCTCCATGTC CGTTGATACA 4320 GTAAGGCGTC CCCACACGTG CGTAGAGGAG ACGCAGATAG TCATTGATTT CAGTCGTCGT 4380 TCCCACCGTC GAGCGAGGAT TTTTACTAGT CGTTTTCTGG TCGATGGAAA TAGCTGGGCT 4440 GAGACCATCA ATGGCATCTA CATCTGGTTT TTCCATATTT CCCAAGAACT GACGAGCGTA 4500 GGCGGACAAA CTCTCTACAT AGCGACGTTG TCCCTCCGCA TAGAGAGTAT CAAAAGCCAG 4560 ACTGGACTTC CCTGAACCTG ACAAGCCAGT CACGACAACC AACTTGTCTC GCGGAATCTC 4620 CACATCAATA TTTTTTAAAT TATGGGCACG CGCCCCATGA ATGACAATTT TATCTTGCAT 4680 CTTTGTTCTT TCTAGTCCAT TATTGCTTAC CATTATACCA AAAAAAGTGA GATTCTATTA 4740 CCCAAAAGGC CGATTTTGTA GTATAATAGT ACAGTGTGAA AAAATCTGAA AAATGAGAAA 4800 GGATAAGGGA TATGAAACAA GTTTTTCTCT CTACAACAAC TGAATTTAAA GAGATCGATA 4860 CGCTTGAACC GGGTACTTGG ATCAATCTCG TCAATCCGAC TCAAAATGAA TCACTCGAAA 4920

rcgc	CAACAC	CTTCGATATT	GATATTGCTG	ACCTTCGAGC	ACCGCTCGAT	GCGGAAGAAA	4980
rgtc	PCGTAT	TACCATTGAA	GACGAGTATA	CCCTGATTAT	CGTAGACGTG	CCGGTCACGG	5040
AGGA	AAGAAA	TAACCGCACC	TACTACGTAA	CCATCCCGCT	TGGTATTATC	ATCACTGAGG	5100
AAAC	CATTAT	CACTACGTGT	TTGGAACCAC	TACCTGTCCT	TGATGTCTTT	ATCAACCGTC	5160
TTAE	GCGTAA	TTTCTATACC	TTCATGCGTT	CACGTTTTAT	CTTTCAAATT	CTTTATCGCA	5220
ATGC	AGAGCT	TTACCTAACA	GCCCTTCGTT	CAATCGACCG	CAAGAGTGAA	CAAATCGAAA	5280
GTCA	ACTGCA	TCAATCAACT	CGTAATGAAG	aattgattga	GCTCATGGAA	TTGGAAAAA	5340
CTAT	CGTCTA	TTTCAAGGCC	TCCCTCAAAA	CAAATGAGCG	CGTGATTAAG	AAATTGACCA	5400
GTTC.	AACCAG	CAATATCAAG	AAATACCTTG	AGGACGAAGA	CCTGCTTGAA	GACACCCTGA	5460
rtga.	AACCCA	ACAGGCCATC	GAGATGGCAG	ATATTTATGG	AAACGTCTTG	CATTCTATGA	5520
CAGA	GACCTT	TGCCTCTATC	ATTTCTAACA	ACCAGAACAA	CATCATGAAA	ACCTTGGCCC	5580
rtgt	GACCAT	CGTCATGTCC	ATCCCAACCA	TGGTCTTTTC	TGCCTACGGG	ATGAACTTTA	5640
AGGA'	Taatga	AATCCCCCTA	AACGGAGAGC	CAAATGCCTT	CTGGTTAATC	GTCTTTATCG	5700
CCTT	TGCTAT	GAGTGTCTCG	CTCACTCTCT	ATCTCATCCA	TAAAAAATGG	TTCTAAGAGG	5760
AGTT	CCTATG	TCTCAAATTG	ATCTACAAAA	ATLAACTAAG	AAAAACCAAG	AGTTTGTCCA	5820
CATT	GCTACC	CAACAATTCA	TCAAAGATGG	GAAAACAGAC	GCTGAAATCC	AGACTATTTT	5880
<b>FGAG</b>	GAAGTC	ATTCCCCAAA	TCCTTGAGGA	GCAATCTAAA	GGTACAACTG	CCCGTTCCCT	5940
ATAC	GGCGCA	CCAACTCATT	GGGCTCATAG	CTTCACTGTC	AAAGAGCAGT	ACGAAAAAGA	6000
GCAT	CCAAAA	GAAAATGATG	ACCCAAAACT	GATGATTATG	GACTCAGCTC	TTTTCATCAC	6060
rage	CTCTTT	GCCCTTGTCA	GCGCCCTCAC	AACCTTCTTT	GCGGCAGACC	AAGCTTTCGG	6120
CTAT	GGATTG	ATTACTCTTC	TATTAGTTGG	ACTGGTTGGT	GGATTTGCCT	TCTACTTGAT	6180
GTAC*	TACTTT	GTTTACCAAT	ACTATGGACC	AGATATGGAT	CGCAGTCAAC	GTCCACCTTT	6240
CTGG	AAATCT	GTACTAGTTA	TCCTAGCTTC	TATGTTCCTT	TGGTTGCTTG	TCTTCTTTGC	6300
AACA	AGCTTC	CTACCAGCTA	GCCTTAACCC	AGTACTGGAT	CCATTGCCAC	TAGCTATTAT	6360
rgga	GCAGCC	CTCCTAGCCC	TTCGCTTCTA	TCTCAAGAAA	CGCTTGAATA	TCCGTAGTGC	6420
aagt	GCAGGA	CCAACACGCT	ATCAAGAATA	AGAAAACGAT	AAAAGCAACT	GCAGGTGCGG	6480
rtgc'	TTTTTC	ACTTACTTTT	TTGAGTTATA	TTCAATGAAA	ATCAAAGAGC	AAACTAGGAA	6540
GCTA	GCTGCA	GGTTGCTCAA	AGCACAGCTT	TGAGGTTGCA	GATAAAACTG	ACGTGGTTTG	6600
AAGA	GATTTT	CGAAGAGTAT	TAAAAGTATT	CTTCTGAAAT	CCCACATAGC	TTTCTCTTAT	6660

6720
6780
6827

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 61:

(D) TOPOLOGY: linear

CTGGCTAGTT GCATAGAGCA AAGTTGCTTC TTCATCAACA AAACCGTTCA TTTCAAAATA 60 GGAAAGCAGC TCATCAGGAC TCTCCAAACG AATCCCTTTG TAATCCAGCT CAACTGCCAC 120 CTCTTTCAAG GCTGCAAGAA GAAGTGTTCC CAGGCCCTGT CTCTGATGGT CAAACTCGAT 180 GACTAAAGAA TGTACTTTTA GACATTGCGG ATTGTCTGAC TGGGGACTTG ATAAAATATA 240 GCCTAAAAGT TGATTTCAT CCCTAGCTAG AAGAAAGGTA TCCGCACACT TACGGATACT 300 TTCTTCTAAA ATATGGGAAA GTTGCTGCTT TTCAGCTGGA AAAGACGAGG TCTGAAGTGC 360 CCCTATCTCA GGCAAATCAG ACTTGCTTGC CTGAATGATC TTAATTGGAA TTTCCATGGG 420 AACATCCTAT TGAACATTGC TTGTCAAGTT AGACAAGAGA CGCTCAAATG AGTATTCATA 480 GGTTTGGATG TCTCCTGCTC CCATAAAGAC GTAAACAGCA TTGTCATGGT CTAGGAGTGG 540 AGAAACATTT TCAACAGTAA TCACTTGGTG TTTTTTGTTG ATTTTGTTGG CTAGGTCTTC 600 TACCTTAACG TCACCATGAT CTACTTCACG AGCCGAGCCA TAAATTTGCG CTAGATAAAC 660 AGCATCTGCT TGGTTTAAAG CATGGGCAAA GTCGTCCAAC AAGGCAATGG TTCTTGTAAA 720 GGTATGCGGT TGAAAGACTG CTACAATTTC CTTGCTTGGG TATTTCTGAC GAGCCGCATC 780 CAAGGTCGCA ATAATTTCTG TTGGATGGTG GGCAAAGTCA TCGATAATCA CTGTATCATT 840 GACAATTTC TCAGTGAAAC GACGTTTAAC ACCGGCAAAT GTTTTCAAGT GCTCACGCAC 900 CAAGTTCAAA TCAAATCCTG CTGTGTAAAG AAGACCAATA ACGGCTGTCG CATTCATGAT 960 ATTGTGACGA CCAAAGGTTG GAATGTGGAA TTGCCCCAAG TTTTGTCCAC GGAAATGAAC 1020 GGTGAAGGTT GAACCAGTTA TTGAACGAAG AAGATCACTA GCTACAAAGT CATTGCCTTC 1080 AGCTTCAAAA CCATAATAAT AAATTGGTGC ATCAGACGTA ATCTTACGCA ATTCAGCATC 1140 TTCACCATAG ACAAAAAGAC CCTTGGTGAT TTGTTTGGCA TAGTCGTTAA AGGCATTAAA 1200 AACATCCTCG AGACTTGTGA AATAATCTGG ATGGTCAAAG TCAATGTTGG TGATAATAGA 1260

525

GTATTCTGGG TGGTAAGGCA TGAAGTGACG CTCATATTCG TCAGATTCAA AGACAAAATA 1320 TTTGGCATTG GCCGAACCAC GACCTGTCCC ATCTCCAATC AAGAAGCTGG TATCTGTAAT 1380 GTGAGACAAG ACATGAGACA ACATACCTGT CGTTGAAGTT TTTCCATGTG CTCCTGCTAC 1440 TCCCATGCTA ACAAAGTCAC GCATAAAGCT ACCTAGAAAC TCATGGTAAC GTTTGTAGCT 1500 GATACCATTT TGGTCCGCAT AGGCAATTTC GACGTTGTTA TCTGGACGAA AGGCATTTCC 1560 AGCGATAATT TCCATATCAC CGTCTAGATT TTTTTCATCA AAAGGAAGAA TGGTAATTCC 1620 TGCCTGCTCA AGACCGCGTT GGGTAAAGTA GTACTTTTCA ACATCTGATC CCTGAACCTT 1680 GTGCCCCATC TGGTGCAACA TCAAGGCCAA GGCACTCATC CCTGATCCCT TAATTCCGAT 1740 AAAATGATAT GTCTTTGACA TGTTTTCTCC CCTATTCTGT CATTCTGGTC AGATTCAACT 1800 CTTGGGCAAC CCGACGTTCT TGTTCTGTTT GTTTACTTTT TTTATTGTAG ATTTGGCTCT 1860 TCTTTAGAAA ATCATAATTG TTTTTCTTTG GAGCAGGTGC TGACACTTCT TCATTCTTGG 1920 TAGGGATAGA ATGAACTTCT TCCGCCAAGA TATAATGAGA CTGGGTCAAT TTTTGGCTAT 1980 ATTTGACAAA TTCACCAGGA TTTTCCTTTT GGAAAGGAGC TGTCGGTTGA TTGCCCTGTC 2040 TAACTAGACT GGGCTGAGAA TGACGTCTCG CAAGGCTGAA ATCCTGAGTT AGGTAGTTAG 2100 CAGAGCGTTT CTTTTCAAG TCCGCACGCG CTTCTTCACG CGCCACCTCC GCATAGCTCT 2160 TTCCTTCTTT TTTAACCCCT AAAGGAGCCT TTTTAGGTTT TTCGACTTGC TTTTCAATCG 2220 GTTTTACTGG TTTTCTTCA GCAATAGGAG CCCATTCTAA ATAATTTTTA TCTCGATACT 2280 CACCCTTGAT ATTACTGATC AGATCAGACT CATCATAGAG ATTCATGACT GGCATTTCAG 2340 TCAACATGAC CTCGTCATCT GACACCAATG GAAATCGTTC TTGTTTCATT TTCTATTTCC 2400 TTTCAACACT TCATTATAGC GTATTGTCTT GATTTTTCAA GTGCTGGCTT CAGAAATTCC 2460 CAAAATTTCT CTAATTTCTG CTAGGGTCAG ACTACCACGT GACTCTGTGC CGTCCAATAC 2520 TTGTGACACC AGATGTTTCT TTTGTTCTTG GAGTTCCTGA ATTTTTCTT CAATGGTTCC 2580 CTTGGTCACC AAGCGATAGA CCTCAACCGT TTCTTCCTGA CCCATCCGAT GGGCACGGCC 2640 AATGGCTTGC GCTTCCACCG CAGGATTCCA CCAAAGGTCA ACCAAGATCA CTGTATCTGC 2700 ACCTGTCAGG TTCAGACCGA CCCCACCAGC CTTGAGGGAA ATCAGAAAGG CATCTCTTTC 2760 TCCTTGGTTA AAGGCCTTGG TCATGTCTTG TCTTTCCTTG GCTGGGGTTG AACCCGTAAT 2820 TTTAAAGGAA GTCAGGCCCA AGTCTGGCAG TTCTTGTTCA ATTTTTTCCA ACATTCCCTT 2880 GAACTGAGAG AAAATCAAGA CACGGTGTCC GCCGTCTGCC ACCTGTACCA GTAGGTCTCG 2940 GAGACTATCT AGTTTGCCGC TGGCTCCCTG ATAATCTTCC ATAAACAGGG CAGGAGTGTC 3000

			526			
ACATATTTGA	CGCAAGCGCA	TCAAACCAGA	TAAAATTTCC	ACACGACTTC	GCTGAAATTC	3060
CTGTTCTGAC	ACTTGAGCCA	GATGGTCTCG	CATCTGTTGT	AACTGGGCAA	GGTAAATAGC	3120
CTTTTGCTGG	TCTTCCAGTT	CATTTTTATA	AACCACCTCA	ATCAAGTCTG	GCAATTCAGT	3180
CAGAACTTCT	TCTTTCTTGC	GTCGCATCAC	GAAAGGCTTG	ATAAACTGAG	CCACTCGCTC	3240
TGCTGGCAAT	TTCATAAATT	CTTTCTTGCT	TGGCAAAAGT	CCAGGCATGA	CGATTTGGAA	3300
AATAGACCAC	AACTCACCCA	GATGGTTTTC	AATCGGAGTT	CCTGACAAGG	CAAAGACCGA	3360
CGGCACCACA	AATTGTCTCA	AGGTCTGGGC	AATCTTGGTC	TGGGCATTTT	TCATGACCTG	3420
AGCCTCATCT	AAGAAAAGGA	AGTCAAAGGC	CATCCCTTGA	TAAAACTCAC	TGTCCTGACG	3480
GAAGGTGGCA	TAGCTAGTCA	CATAGATTTG	ATGGCTCTCG	GCAAGAATCT	CCTCACGACT	3540
TGCTTTCAAA	CCATGAACAA	CAGTCACATC	CAACTGTGGA	GCAAATTTCT	GAAACTCATC	3600
TGCCCAGTTG	TAAATCAAAC	CCGACGGAGC	GAGAATCAAA	ACCCGACTTT	CTTTTGTCAC	3660
TTGACTAGTC	AAAAAAGCAA	TGGTCTGAAG	GGTTTTCCCA	AGTCCCATAT	CATCAGCCAA	3720
AATCCCACCA	AAACCATAAT	GATGGAGCAT	CTGCAACCAG	CCAATTCCCT	TTTCCTGATA	3780
ATCTCGCAAG	TCAGCCTTGA	CCTGAGTTGC	TTGCAAAGGA	AAGTCCTCTG	GATGCGTCAA	3840
ATCCTGGGCC	AGATTCTGGA	ATTCTTGTGA	AAAAGAAACA	CGGTCTCGCC	CTTCAAAGAG	3900
ATGAGCTAAA	CTGTAGGCCA	AGGATTTCCG	AGCCTGCAAG	GTCCCATCTT	TTAATTCAAA	3960
TTGCCCCAGT	TCCTGTAGAT	TTTGGCGAAT	TTTCTTGGTT	TCTTCATCGA	AAAAGTAAAC	4020
TTGATTAGAC	GAATCAATAT	AAAAATCCTG	ATTGGCAACC	AAGGCCTGCA	TGGCTTGGTC	4080
GATTTCCTCC	TGGACAATAT	TTTGAAAATC	AAACTGGATT	TCCAAGAGAC	CTCCCTTGGA	4140
GGCAATCTGC	ACCTGAGGAC	TCGCTAGGCT	ATAAAGCTCT	TCTAGTTTAT	CTGATAGGTC	4200
AACATGCCCG	AGTTTTTCAA	AGACTGGAAT	GATATCATGA	AAAAAATGAT	AGACAGACTC	4260
CGCTTTTAAG	GCCTGACGCC	AAGATTGAAA	ATCGGCCTCA	AAGCCCGCAG	CCAAACAGAC	4320
TTGGAAAATT	CTTTCTTCTA	AGTCTGCGTC	ACTTGAAAAG	GGTAATTCTT	CTAGCTCTTG	4380
TCGGCTAGAT	ACCTGTCTAT	TTCCATAATC	AAACTGAATT	TCTAAACGAA	TCCGATTATC	4440
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TGAAACGGTG	CCCATCTGGA	TAAAAAGAGT	CAGACAGGAG	GCCAATTTGT	CTCGATCACT	4560
GCTATCAAAT	TGCAGGTATT	TCTTTCCTTG	TTGACCCACA	GGTAACGCTT	TAATTTCCTT	4620
GAGAAGACGC	ATCTGCTGGT	CTGTTAAAAA	ATAAACCTGA	CCTTTATGGA	AAAGTACTGC	4680
TCCCTGATAA	AAGACATTGA	CCCTAGGACT	CTCACTGATT	TCCATTTCAA	AATAATCCGA	4740
GTATTCTGTT	ACTGTAAAGG	CAAATAGATT	GGCATCAGCA	TGCATATCCT	GAAAAAGCAG	4800

527

GGTTTGGTAG	CTATCCACTT	GATGGTCAAA	TTGAAAATGG	GGCAAGGCCA	TCAGTAAATT	4860
CACACCCTGC	TCAAAAAAGG	TCAGAGGGAA	AAAGAGGTGC	CGACCTTGGT	TTTGGAAAAA	4920
GAGGTCTGGA	ACCAGCCCTT	CCTCCGTTAG	TCCGTGCAAG	AAAGTCAAAA	GTTCTTGGCT	4980
GGCATCATCA	AAGGCTTCCC	AAGAAAGAGA	CTCCTCATAA	ATCTTGCCAA	TCATATACGA	5040
CTTTCTCTGC	TCGACAATCC	TTAAAAAAAG	TGGAATATCC	CGAATGACAT	AGTATTTTTG	5100
<b>GCTAT</b> TGATT	TGGCCGATTC	TCAGAGTCCA	CAAGATATGA	TTGGTTCCTG	CTTCCACCTG	5160
ACCCACAGCT	GATAACTCAT	AGGCGCATTC	TGATTTTGGA	GATAAAATTC	GATCCAAAAA	5220
CTTGCCACCC	AAGGTCACCT	TGGTTTCAAC	AGCCTCTTTT	TCTTCATGAC	CTTCTTCCAG	5280
ACTCCACAAG	ATTTCCTGAC	CACGCTCATC	ATTTTTCAGA	AAATGCTCTA	GCGCTGCCAA	5340
ATGCACACAG	TAGCCCCTCT	TTTGAAAAAA	ATCACAGGCA	CAAAAAACCA	AATCATCCTC	5400
ГАААСТАТАС	CGCAGTTCTT	CTTCTGCAAC	GCGAGCGTAG	AGCCGATTGT	TCTTTTCCTT	5460
GATGATATCA	ACCTTACCAG	TTTCATAAAG	GGCAACACCT	TCGATACGAA	TTTTCCCCGG	5520
AATCAATTTA	GCCATATTTT	CACCTTTACC	TTATCTTTTT	ATTATACCAT	ATTTTCGCCT	5580
ATGAAAATAG	CCTTCTAGGA	AGACTTTTCT	CCTAGAAGGC	TGGATTTTTA	ACGTTTGGCA	5640
AAAGTAGCCA	CAATCCGCTG	ACAGACTTCT	TGCAACAGAG	ATTTGGGCAT	AGCTATATTG	5700
ATGCGGGCAT	GGAGACTTCC	TTCCTCTCCA	AAATCCAAAC	CACGGTTGAG	GATAACCTTG	5760
CTTCATTTC	TCAACAACTC	TTGCAATGTT	TCATCAGTCA	GGTCATAAGC	TGAAAAGTCA	5820
AGCCAAATCA	AGTAGGTACC	TTGCGGTTTC	ATGACCTTGA	TTTTAGTCTC	TTTTCCAAAT	5880
AGATCCATCA	CATAATTGAT	GTGGTCTTCA	AAGACTTGCT	TGAGTTCCTC	TAGCCAATCT	5940
TTACCGTATC	GATAGGCAGC	TTCTGTCGCC	AAATAACCCA	AGCCTGAAAT	TTCATGCTGA	6000
TATTGGCCA	ACAGGCGTTT	CTGGAAAGCC	AGTCTCAACT	TAGGATTTTC	AATGACTGCA	6060
PAGGAATTTT	TTGTTCCAGC	AATATTAAAT	GTTTTAGTGG	CACTGCTCAA	GACGATAGCA	6120
<b>AAATTTTTGA</b>	AGGCAGGATT	GATGGTATTG	AAAGACTGGT	GTTTGTGACC	AAAGAGGGTC	6180
AAATCTTGGT	GAATCTCATC	CGAAACTAAC	AAAACACCGT	GTTTTTGGCA	GAGTTGGCCA	6240
ATCTTCTCCA	ACACTTCTTT	TTCCCAAACA	CGTCCACCAG	GATTGTGAGG	GTTGCAAAGA	6300
ACATAGAGTT	TAACCTCCTC	TTCCACCAAA	TCCTTTTCAA	GTTGGTCAAA	GTCAATCTCA	6360
AACAGACTAT	CCTTTTCCAC	TAAGGAATTA	GTAATCAATC	TACGATTATT	CAACTTGACA	6420
CTGCGAGCAA	AGGGTGGGTA	GACAGGCGTG	AAAATTAAAT	CCGCCTCGCC	TTCTTTTGTA	6480
1 1 CCMMMC 2 2	macememmes	CAMCCOMCCM	1001010000	CC200222C	3.3.C.3.C.O.O.D.O.D.	6540

			528			
TTGTCAAAGT	TGTAACCGTA	TTGTGTAGCT	TCCCACTTTT	GAACTTCCTT	AATTAAGTCT	6600
TCACTGGCAT	AGGTATAACC	ATAAACCAGT	TGGTCTGCGT	AAGTTTGCAC	GGCTTGGCGG	6660
ATTTCAGGCA	AGACCACAAA	GTCCATATCC	GCTATCCAAG	CTGGTAGAAC	TTCACTATCC	6720
GTTTCTGTTT	CTTTCCATTT	ATAGGTATGG	TGCCCTAAAC	GGTTGGGCAG	GCTTGTAAAA	6780
TCATATTTTC	CCATCTTTGT	CTTATCCTTC	TATGGCTTGG	CGCAAATCTG	CAATCAAATC	6840
TCTAGCATCC	TCAATCCCAA	TAGACAAACG	CAAGAGGTCA	TCTGTCAAAC	CATAAGAATG	6900
GCGTACCTCT	GCTGGAATAT	CAGCATGAGT	TTGAGTCGTT	GGATAAGTAA	TAAGACTTTC	6960
CACTCCACCC	AAACTTTCCG	CAAAAGAGAA	GACCTTGAGA	CTGTTCAAAA	TATGAGGAAT	7020
GCGTGTTTCA	TCGGCTACTT	TAAAGGAAAT	CATGCCTCCA	CGACCAGTGT	AGAGAACTTC	7080
CTTAACTGCT	GGAGAATCCT	TCAAAAAGGC	AACCACTTCT	TGGGCGTTAG	CTGTTGAGCG	7140
CTCCATACGA	AGAGACAAGG	TCTTGAGACC	ACGAAGCAAC	TGGTAGCTGT	CAAATGGAGA	7200
CAAGACTGCC	CCTGTTGTAT	TAAGATTGTA	AAAAAGCTTC	TCGTATAGTT	CTAAACTATT	7260
GGTCACAACC	ACTCCAGCCA	AGACATCATT	GTGGCCTGCT	AGATACTTGG	TTGCTGAATG	7320
GAGAACGATA	TCTGCTCCAT	CTTCAATCGG	ACGTTGGTAG	ATAGGGCTAT	AGAAGGTATT	7380
GTCCACCACC	ACTTTGGCAC	CCTTAGCATG	AGCCAATTTT	GCTAGTTTTT	CGATATCAAA	7440
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CTCGGCAATC	AACTCTTCTT	CTGTATTGGC	ATAGGTAAAA	TGGAAATGAC	CTTCCTGCTC	7560
CACTTGGTTA	AACCAGCGAA	AAGAACCACC	GTAAAGATCA	CGCACTGCCA	AGACCTTACT	7620
PCCTACTGGA	AAGACGCTAA	AGGCCAGTAC	AATAGCTGAC	ATCCCTGAGC	TAGTCGCTAG	7680
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rgctaaaatt	GTGTTAATGT	GTAATTCCTT	GCTCATACAA	TTCCTCCAAA	TCTATAGTAA	7920
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CAAACTATAT	AAAAAGGGAG	TTTTTCCTGC	TCCCTTTAAT	AGACTATAAA	ATGGTGAATC	8040
rcaaaagaca	CCTTCACTCT	ATCATTTGCT	CCTGCACAAA	ACGAGCATAA	CGCTCATGAT	8100
FTTCCAGTAG	TTCCTTATGA	GTTCCTGAGC	CAGTGATTTT	CCCCTCCTCT	AAGAAGAAAA	8160
PACAATCCAC	ATCTTTTACC	GTTGACAAAC	GATGCGCTAT	AATCACAACC	GTCTTCTCCT	8220
PTAGTACAGA	ATAGAGGCTA	CTGATAATCG	CATACTCAGA	ATCCGCATCA	AGATTAGCAG	8280
GGCTTCATC	AAATATAAGA	ATTTCAGCAT	CTTTTAAGTA	GGCTCTAGCT	ATTTGAAGTC	8340

TTTCGTTCGC	CCCCCTGACA	AGAGTCGTCC	GCGTTCACCA	ACTTCAGTAT	CTAGTCCCTC	840
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ACGCACAATC	GTTGATTTTC	CTGATCCAGA	TGGTCCAACA	AAAGCAATTT	TTTGCCCCTT	8700
gaaaattgaa	CAAGTAATAT	CCTTTAAGAC	AGGTCGATTT	TCATCATAAC	CAAAATAGAC	8760
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AACTGCAAGC	AAGTTCTCCA	GTGCAACTGA	AGATCCCTTG	CTCCTAGAAT	AAACAGTTAC	8880
AAAATTAGCT	АТАТТАСТАА	TAGGATTAAG	TAATTGAAAG	AGGTAAATÇA	AAAACGAAAC	8940
CAAGGTTCCC	ACAGATATAT	ATCCTGCGCT	GACCCGATAA	CCCCCATAGG	TTAGCATCAC	9000
AGCTATAGTC	GCAAAGATAA	ATAAGAGAGC	AAACGGGGTC	TCAAAAGAAG	TAACCCTATC	9060
TGATTTCAGT	GAATTGTTTT	GTACCCTTTC	AATACAATTA	TCCAAAACAT	CCTGTACACT	9120
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IGTTAAATTT	CCTCCTGTAA	ACGACGACTA	TACTTTTCAC	TGATATTGGA	AAGGGGCAAG	9240
АТААТАААСА	TCATACAAGG	AAGAGTGATG	AATAAAAGTA	GAGAAAGATT	CCAATCAAGA	9300
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GTCGTAATTA	AAAACTCACG	AATGACACTC	GTGTCATTGA	CAATGGCAGA	AGTCAACTCC	9420
CCACTTTGGC	TCTTATCAAA	GAAGGATTTC	ТСТАСАТААА	TCAACCCCTC	TATCACTTTT	9480
TCCTGATTT	TTGCTATCTT	TTTTTCACCC	GATTGACTAA	ACAGATAGTA	ACCAATAGAA	9540
GAAAACAAGG	CTTGACCAAT	AAAAATCAAA	AACGATTGAA	ATACTTTGGA	GCCTATATTT	9600
<b>FCAATAGAAC</b>	TCCCATCTAT	TAAATCCTTT	AAGATAAGGG	GAAGCAACAA	AGCAAGTAGA	9660
TAGACAGAA	CAAGTAAGAA	ACTCCCCATA	ATCACCTTAG	TATCTACTCT	TAATAATTT	9720
ATTTCATAA	ATACTCCTTA	TAATATTTCA	ACGGATAAAG	TCGGGAATAA	CTCAATTTGA	9780
GATAAAATC	ТААТАААТСТ	TCCTATAACA	AAACGCATAA	CATCTAGGAT	TTTATATACC	9840
PGATATTATG	CGTTTTTAAG	CACAAAGACT	TCTTACACAA	ACTTATCTAC	AATTAGATTT	9900
TATTTGACAT	GTTTTGCCAA	TTCTTCTTGG	GCTTTTTAT	TGGATTCTTC	TTTTTCTTTC	9960
ACCATTTTT	CTCTGGCTTT	TGCATATTCG	TCTGTTGTGA	CAATCTTATC	TTGTACTTTG	10020
GGTATTTAT	ATGATTCAAC	CCCTTTTGTA	CCGGTTAAAC	CATAGGCAGC	AGCAAATGGT	10080

ACGGTTCTTC	TCAATGATGG	TGTTCCCCCA	530 CGCGAAACAC	TTGGAAGAAC	TAAAGAACTA	10140
TCAATCAACC	AAGCTTGAAT	ATCAGCATAT	TTCTCATAAC	GTTTGGCCGG	ATCTTGCTCT	10200
TTATTAGCTT	CTTCCAACAT	TTGAGTATAG	ACATCCAGTC	CAACTGCCTT	AGCCTTGTCA	10260
TTGGCCTCAC	CAGGCTCTAG	TCCAAGATTT	TGCAGAAATC	CTCCACTATT	AGTATTAAAA	10320
ATATCGAGAT	AGGTTGACGG	GTCTTGATAA	TCAGGTCCCC	AACCGCCATG	АТАТАААТСА	10380
TAATCTTTCT	GAGCAGCTGT	TTGAGCAAAG	TAGCCTGAAC	TGTCAAACTC	ATCTGATGTT	10440
AATTGCTGAA	TGTCAATCAC	TACATTATCA	GAACCTAAAA	CAGATTCAAT	TGATTGTTTG	10500
ATAGAACTAA	CTCCTTGTAT	GCCTACTTTA	TCTGTTACTT	CCACAGTCTT	ATCCAAGTGG	10560
ATTGGGAATT	GAACACCCTT	TGCTTCGAGT	TCTTTCTTAG	CTTCCGCAAA	CTTAGCCTTG	10620
GCTTTCTCAG	GATTGTAGTA	AGGGTCTTGA	CCATCCGCAA	AGTTGATACC	TTGCCATTCC	10680
TTACCATAGT	TGACCATCTT	AGAGGCTACA	ACTTCACCAA	AGTCTTTTCC	CTTGATACTG	10740
ACAAAGTTTG	GAGGAACCAC	TAGGTTACGC	AAAATCTTTG	TTGCACCTTC	TTTCCCTTCA	10800
GACTGAGCCC	CATAAGATGT	TCTGTCAAAA	GCAAAATTGA	TAGCCTGACG	GAAGTTTTTA	10860
TTGAGAACTG	CTTCCTGAGT	CGATTTCTTT	TCAATGTCAC	TTGTTTTAGA	AGTATAATTG	10920
TAAGACTTCC	TATCTAGGTT	AAAATTAAAG	AAATATGAAG	TTGAATTTTG	CATACTATAG	10980
ATGATATTGT	TTTTGTATTT	ТТСТТТААТС	CCTTCATAGC	TGGAGCTGTT	AGGAAAAAGA	11040
CGAGCCGTAG	TATAAGCACC	AGCTGTAAAA	TTACGTTCCA	GTGATTCTTG	GTCGCTACCA	11100
TCATAGTAGG	TCAATTTCAC	ATCGTCTACA	AAGACATTCT	TAGCATCCCA	GTAATTAGGG	11160
тттттсттат	ATTCAATAGC	AGATTTTGAG	ACAAGTGCTT	TCATCAAGAA	AGGTCCATTG	11220
TACAAAATAC	TAGATGGATC	CGCCTTCCCA	AAATCATCCC	CTTTTGATTT	CAGGAAATCT ·	11280
GCATTAACAG	GAAAAAGTAT	CGTTGCAAGT	GTTTTTGAAT	TCCAGTAAAG	TTCTGGTTTA	11340
ACCAAAGTAT	ATTGAACCGT	TTGGTCATCA	AGTGCCTTGA	CACCGACAGT	TGAAAAGTCG	11400
CTTGTTTTAC	CAGTGATATA	GTCATCCAAA	CCAGCAACAG	AGTCCTGCAC	TAGATACAAG	11460
GCTTCTGATT	TTTTATCAGC	TGCATATTGC	AAACCTGTCA	CAAAATCCTG	GGCAGTTACA	11520
GGCGCATATT	СТТСТСССТС	AGAAGTAAAC	CACTTGGCAT	CCTTACGAAG	TTTGTAGGTA	11580
TAGGTCAAAC	CGTCCTGAGA	AACAGTCCAA	TCCTCTGCTA	ATGATGGAAT	AATATTCCCA	11640
TATTGGTCAT	тттстаатаа	CCCGTCTACC	AAATTTGCAA	CAATATCGGA	TGTTGCTGCG	11700
CGGTTTTCTG	CTAGATAGTT	CAAGCTAGAT	GGATCACTTG	AATAAACATA	GTTGTAGGTT	11760
TTTGACGCCG	TGCTAGAATT	TCCACACGCG	СТСААТАААА	CTCCTGTACC	CAGGACAAGA	11820
CCTGCCAAGG	TTAGATATTT	GCTCTTAGAC	ТТТТТСАТТТ	CCGG		11864

### (2) INFORMATION FOR SEQ ID NO: 62:

# (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 2412 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 62:

TAACTGCACT	T AAACATAATA	TAAGGAGAGA	AAATGTCTGC	AATAGAACGT	ATTACAAAAG	60
CTGCTCACT	DTATAGTTAA 1	AACGATATTA	TCCGTGAAGG	GAATCCTACT	CTACGCGCGA	120
TTGCTGAGG	A AGTCACTTTC	CCCCTATCTG	ACCAGGAAAT	CATCCTAGGC	GAAAAGATGA	180
TGCAATTCCT	TAAACATTCC	CAAGATCCTG	TCATGGCTGA	AAAAATGGGA	CTCCGCGGTG	240
GTGTTGGACT	GGCTGCTCCC	CAGTTAGATA	TCTCAAAACG	CATTATCGCT	GTTTTGGTAC	300
CTAATATTG	TGAAGAAGGC	GAAACTCCAC	AGGAAGCCTA	CGATTTGGAA	GCCATTATGT	360
АСААТССАА	A AATCGTCTCT	CACTCTGTTC	AAGATGCTGC	TCTTGGCGAA	GGAGAAGGTT	420
GCCTGTCTGT	TGACCGTAAC	GTGCCTGGCT	ATGTTGTTCG	CCATGCCCGC	GTTACTGTTG	480
ACTACTTTGA	CAAAGATGGA	GAAAAACACC	GTATCAAACT	CAAAGGCTAC	AACTCCATTG	540
TTGTTCAGC	TGAAATTGAC	CACATTAACG	GTATCATGTT	TTACGATCGC	ATCAATGAAA	600
AAGACCCATT	TGCAGTTAAA	GATGGTTTAC	TGATTCTTGA	ATAAAGAAAA	TCCCGTTGCA	660
AGACGGGGTT	TTGTGTTATA	ATAGAGGCAT	GAAAACAAAT	GATATTGTCT	ATGGTGTCCA	720
CGCCGTTACC	GAAGCCCTCC	TTGCAAATAC	AGGAAACAAA	CTCTACCTCC	AAGAAGATCT	780
CCGAGGTAAG	AATGTTGAGA	AAGTCAAGGA	ACTAGCTACA	GAAAAGAAGG	TGTCCATTTC	840
TTGGACATCA	AAAAAATCTC	TCTCTGAGAT	TACTGAAGGT	GCTGTTCATC	AAGGTTTTGT	900
TCTACGAGTO	TCTGAATTTG	CCTATAGCGA	GCTAGATTAC	ATCCTTGCAA	AAACACGCCA	960
AGAAGAAAAT	CCACTTCTAT	TGATTCTAGA	TGGTCTAACC	GATCCCCATA	ATCTGGGTTC	1020
TATCTTGCGA	ACAGCCGATG	CGACCAATGT	TTCAGGTGTC	ATCATTCCCA	AGCACCGTAC	1080
TGTCGGAGTA	ACTCCTGTCG	TTGCCAAAAC	AGCCACAGGT	GCTATTGAAC	ACGTECCAAT	1140
TGCCCGAGTG	ACCAACCTCA	GTCAAACCTT	AGGATAAACT	TAAGGATGAA	GGTTTCTGGA	1200
CCTTTGGAAC	GGATATGAAC	GGTACTCCTT	GCCACAAGTG	GAATACAAAA	GGGAAAATCG	1260
СССТСАТСАТ	TGGAAATGAA	GGAAAAGGTA	TCTCTAGCAA	САТСААААА	CAGGTCGATG	1320
AAATGATTAC	CATTCCGATG	AATGGACATG	TTCAAAGCCT	TAATGCCAGT	GTTGCTGCGG	1380

			532			
CCATTCTCAT	GTACGAAGTT	TTCCGAAATA		AAGTTTCCAG	TCATCTGATT	1440
GGAAACTTTT	TTATGATTAA	CTATGTTCTG	TAATGAATTT	ATAGGCTTCT	TGACCAGCGA	1500
TAGCTCCATC	TCCAACCGCT	GTTGTTACTT	GGCGAAGGTC	TTTCAAGCGA	ACATCTCCAA	1560
CTGCAAAGAT	ACCGTCGACT	GCAGTTTTCA	TGTGGTTATC	TGTCACAATC	CATCCTGCCT	1620
GATCTTGGAT	ATTCAATTCT	TTAACAAAAT	CGCTAAGAGG	GTCCAAACCA	ACATAGATAA	1680
AGACACCACC	GAAGGCTTGT	TCTGTCACTT	GACCTGTTTT	CACATTTTCA	AATACGACTG	1740
ATTCTACTCG	GTTTTCACCC	TTGATTTCCC	TTACTACAGA	ATCCCAGATA	AAGCTGATTT	1800
TTTCATTCGC	AAAGGCGCGA	TCTTGTAAAA	CCTTTTGGGC	ACGAAGTTGG	TCACGACGGT	1860
GAACAATGGT	AACAGTCTTA	GCAAAACGAG	TCAAGAAGAG	GGCTTCTTCA	ACAGCTGAAT	1920
CTCCACCACC	AACTACCAAT	AAATCTTGGT	CACGGAAGAA	AGCACCATCA	CACACAGCAC	1980
AGTAAGAAAC	ACCACGACTG	TTCAGTTCTT	CTTCTCCAGG	CACTCCCAAA	GGACGGTGTT	2040
TAGAACCAGT	TGCTACGATA	ACTGTACGTG	TTTCATATGT	TTGGTCATCA	GTCATCACTT	2100
TCTTAAAATC	ACCATGGCTT	CGACATTTTC	AACATAACCA	TAAATGTGCT	CAACACCAAG	2160
ATTTTCAAGT	GGTTCAAACA	TCTTTTCAGC	CAATTCAGGT	CCACTAATAT	TAGCGTATCC	2220
TGGGTAATTT	TCGATATCAG	ATGTATTATT	CATCTGACCA	CCTGGCAGAC	CACCTTCAAT	2280
CAAAGCTACT	TTTAGATTGC	TTCGAGCAGC	ATACAAGGCC	GCAGTCATCC	cTGCAGGTCC	2340
AGCACCGATA	ATAATAGTAT	CGTACATATA	GATTCCTTCT	TTCTTGGTGT	AACTATCTTT	2400
ATTCTAACTC	TG					2412
(2) Type=						

#### (2) INFORMATION FOR SEQ ID NO: 63:

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 7760 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double
   (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 63:

CCGATTTGGT	GGAATTTTTG	TCTCATCATT	TAGAAGGTGT	TGCAAGAGCA	GAGTTTACCT	60
TGGTGCTTCA	TACCAAATTG	GGAGAAGCCT	CTGTTTTGGC	AAATATTGTA	GATGTAAACA	120
AGGATGAATG	GATTTTAGGA	ACAGTTGCTG	GTGCCAATAC	CTTATTGGTT	ATTTGTCGAG	180
ATCAGCACGT	TGCCAAACTC	ATGGAAGATC	GTTTGCTAGA	TTTGATGAAA	GATAAGTAAG	240
GTCTTGGGAG	TTGCTCTCAA	GACTTATTTT	TGAAAAGGAG	AGACAGAAAA	TGGCGATAGA	300
AAAGTTATCA	CCCGGCATGC	AACAGTATGT	GGATATTAAA	AAGCAATATC	CAGATGCTTT	360

PTTGCTCTTT	CGGATGGGTG	ATTTTTATGA	ATTATTTTAT	GAGGATGCGG	TCAATGCTGC	420
GCAGATTCTG	GAAATTTCCT	TAACGAGTCG	CAACAAGAAT	GCCGACAATC	CGATCCCTAT	` <b>4</b> 80
GCCGCGTGTT	CCCTATCATT	CTGCCCAACA	GTATATCGAT	GTCTTGATTG	AGCAGGGTTA	540
Paaggtggct	ATCGCAGAGC	AGATGGAAGA	TCCTAAACAA	GCAGTTGGGG	TTGTTAAACG	600
AGAGGTTGTT	CAGGTCATTA	CGCCAGGGAC	AGTGGTCGAT	AGCAGTAAGC	CGGACAGTCA	660
GAATAATTTT	TTGGTTTCCA	TAGACCGCGA	AGGCAATCAA	TTTGGCCTAG	CTTATATGGA	720
PTTGGTGACG	GGTGACTTTT	ATGTGACAGG	TCTTTTGGAT	TTCACGCTGG	TTTGTGGGGA	780
AATCCGTAAC	CTCAAGGCTC	GAGAAGTGGT	GTTGGGTTAT	GACTTGTCTG	AGGAAGAAGA	840
ACAAATCCTC	AGCCGCCAGA	TGAATCTGGT	ACTCTCTTAT	GAAAAAGAAA	GCTTTGAAGA	900
CCTTCATTTA	TTGGATTTGC	GATTGGCAAC	GGTGGAGCAA	ACGGCATCTA	GTAAGCTGCT	960
CCAGTATGTT	CATCGGACTC	AGATGAGGGA	ATTGAACCAC	CTCAAACCTG	TTATCCGCTA	1020
CGAAATTAAG	GATTTCTTGC	AGATGGATTA	TGCGACCAAG	GCTAGTCTGG	ATTTGGTTGA	1080
GAATGCTCGC	TCAGGTAAGA	AACAAGGCAG	TCTTTTCTGG	CTTTTGGATG	AAACCAAAAC	1140
GCTATGGGG	ATGCGTCTCT	TGCGTTCTTG	GATTCATCGC	CCCTTGATTG	ATAAGGAACG	1200
AATCGTCCAA	CGTCAAGAAG	TAGTGCAGGT	CTTTCTCGAC	CATTTCTTTG	AGCGTAGTGA	1260
CTTGACAGAC	AGTCTCAAGG	GTGTTTATGA	CATTGAGCGC	TTGGCTAGTC	GTGTTTCTTT	1320
rggcaaaacc	AATCCAAAGG	ATCTCTTGCA	GTTGGCGACT	ACCTTGTCTA	GTGTGCCACG	1380
SATTCGTGCG	ATTTTAGAAG	GGATGGAGCA	ACCTACTCTA	GCCTATCTCA	TCGCACAACT	1440
GATGCAATC	CCTGAGTTGG	AGAGTTTGAT	TAGCGCAGCG	ATTGCTCCTG	AAGCTCCTCA	1500
GTGATTACA	GATGGGGGAA	TTATCCGGAC	TGGATTTGAT	GAGACTTTAG	ACAAGTATCG	1560
TGCGTTCTC	AGAGAAGGGA	CTAGCTGGAT	TGCTGAGATT	GAGGCTAAGG	AGCGAGAAAA	1620
TCTGGTATC	AGCACGCTCA	AGATTGACTA	CAATAAAAAG	GATGGCTACT	ATTITCATGT	1680
BACCAATTCG	CAACTAGGAA	ATGTGCCAGC	TCACTTTTTC	CGCAAGGCGA	CGCTGAAAAA	1740
TCAGAACGC	TTTGGAACCG	AAGAATTAGC	CCGTATCGAG	GGAGATATGC	TTGAGGCGCG	1800
GAGAAGTCA	GCCAACCTCG	AATACGAAAT	ATTTATGCGC	ATTCGTGAAG	AGGTCGGCAA	1860
STACATCCAG	CGTTTACAAG	CTCTAGCCCA	AGGAATTGCG	ACGGTTGATG	TCTTACAGAG	1920
CTGGCGGTT	GTGGCTGAAA	CCCAGCATTT	GATTCGACCT	GAGTTTGGTG	ACGATTCACA	1980
ATTGATATC	CGGAAAGGGC	GCCATGCTGT	CGTTGAAAAG	GTTATGGGGG	CTCAGACCTA	2040
ATTCCAAAT	ACGATTCAGA	TGGCAGAAGA	TACCAGTATT	СААСТССТТА	CAGGGCCAAA	2100

			534			
CATGAGTGGG	AAGTCTACCT	ATATGCGTCA	GTTAGCCATG	ACGGCGGTTA	TGGCCCAGCT	216
GGGTTCCTAT	GTTCCTGCTG	AAAGCGCCCA	TTTACCGATT	TTTGATGCGA	TTTTTACCCG	222
PATCGGAGCA	GCAGATGACT	TGGTTTCGGG	TCAGTCAACC	TTTATGGTGG	AGATGATGGA	228
GCCAATAAT	GCCATTTCGC	ATGCGACCAA	GAACTCTCTC	ATTCTCTTTG	ATGAATTGGG	234
ACGTGGAACT	GCAACTTATG	ACGGGATGGC	TCTTGCTCAG	TCCATCATCG	AATATATCCA	240
<b>PGAGCACATC</b>	GGAGCTAAGA	CCCTCTTTGC	GACCCACTAC	CATGAGTTGA	CTAGTCTGGA	246
GTCTAGTTTA	CAACACTTGG	TCAATGTCCA	CGTGGCAACT	TTGGAGCAGG	ATGGGCAGGT	252
CACCTTCCTT	CACAAGATTG	AACCGGGACC	AGCTGATAAA	TCtACGGTAT	CCATGTTGCC	258
AAGATTGCTG	GCTTGCCAGC	AGACCTTTTA	GCAAGGGCGG	ATAAGATTTT	GACTCAGCTA	264
GAGAATCAAG	GAACAGAGAG	TCCTCCTCCC	ATGAGACAAA	CTAGTGCTGT	CACTGAACAG	270
ATTTCACTCT	TTGATAGGGC	AGAAGAGCAT	CCTATCCTAG	CAGAATTAGC	TAAACTGGAT	276
STGTATAATA	TGACACCTAT	GCAGGTTATG	AATGTCTTAG	TAGAGTTAAA	ACAGAAACTA	282
TAAAACCAAG	ACTCACTAGT	TAATCTAGCT	GTATCAAGGA	GACTTCTTTG	ACAATTCTCC	288
ACTTTTTTGC	TAGAATAACA	TCACACAAAC	AGAATGAAAA	GGAGCTGACG	CATTGTCGCT	294
CCTTTTGTC	TATTTTTTAA	GGAGAAAGTA	TGCTGATTCA	GAAAATAAAA	ACCTACAAGT	300
GCAGGCCCT	GGCTTCGCTC	CTGATGACAG	GCTTGATGGT	TGCTAGTTCA	CTTCTGCAAC	306
CGCGTTATCT	GCAGGAAGTC	TTAGGCGCCC	TCCTTACTGG	GAAATATGAA	GCTATTTATA	312
STATCGGGGC	TTGGTTGATT	GGTGTGGCCG	TAGTCGGTCT	AGTTGCTGGT	GGACTCAATG	318
PTGTCCTCGC	AGCCTATATT	GCCCAAGGAG	TTTCATCCGA	CCTTCGGGAG	GATGCCTTCC	324
TAAAATTCA	AACCTTTTCT	TATGCTGATA	TTGAACAATT	TAATGCGGGA	AATCTAGTCG	330
TCGAATGAC	AAATGATATC	AACCAGATTC	AGAACGTTGT	CATGATGACC	TTCCAAATTC	3360
TTTCAGACT	TCCCCTCTTG	TTCATCGGTT	CGTTTATCCT	AGCGGTTCAA	ACCTTACCTT	3420
CTCTGTGGTG	GGTGATTGTT	CTCATGGTAG	TCTTGATTTT	TGGTTTGACT	GCTGTCATGA	3480
GGGAATGAT	GGGCCTCGT	TTTGCCAAGT	TTCAAACCCT	TCTTGAGCGC	ATCAATGCCA	3540
TGCCAAGGA	AAATTTACGT	GCCTTCCTG	TGGTCAAGTC	CTTTGTCCAA	GAAAAAGAGC	3600
atttgctaa	GTTTACAGAG	GTCTCAGACG	AGCTTCTTGG	TCAAAACCTT	TACATTGGTT	3660
TGCCTTTTC	AGTAGTGGAA	CCCTTTATGA	TGTTGGTTGG	TTACGGGGCG	GTCTTCCTCT	3720
TATTTGGCT	GGTCGCGGGA	ATGGTTCAGT	CGGATCCGTC	TGTTGTTGGT	TCCATCGCTT	3780
TTTTGTTAA	TTACCTAAGC	CAGATTATCT	TTACCATTGT	TATGGTTGGA	TTTTTGGGAA	3840
TTCTGTCAG	CCGTGCCATG	ATTTCCATGC	GTCGTATTCG	AGAAATTCTT	GACGCAGAGC	3900

CAGCTATG	AC	CTTCAAGGAT	ATCCCAGATG	AAGAGTTGGT	TGGAAGTCTT	AGCTTTGAAA	396
ATGTGACC'	тт	TACCTATCCA	ATGGACAAGG	AACCGATGCT	GAAAGATGTG	AGCTTTACTA	402
TTGAACCT	GG	TCAAATGGTT	GGTGTAGTTG	GAGCGACTGG	TGCAGGAAAG	TCAACCTTGG	408
CTCAATTG	AТ	TCCACGTCTC	TTTGATCCAC	AGGACGGGGC	CATTAAAATC	GGTGGCAAGG	414
ATATTCGAG	GA	AGTGAGTGAA	GGAACCCTGC	GTAAAACAGT	TTCCATCGTT	CTCCAACGTG	420
CCATTCTT	ТT	TAGTGGAACG	ATTGCAGATA	ACTTGAGACA	GGGGAAGGGG	AATGCTACTC	426
PATTTGAA.	AТ	GGAGCGCGCA	GCCAATATTG	CCCAGGCTAG	TGAATTCATT	CATCGTATGG	4320
AGAAAACC'	ТT	TGAAAGTCCA	GTTGAAGAAC	GGGGAACCAA	TTTCTCTGGT	GGACAAAAAC	4380
AAAGGATG	TC	GATTGCGCGT	GGGATTGTCA	GCAATCCACG	TATTCTGATT	TTTGATGATT	444
CGACCTCAC	GC	CTTGGATGCC	AAATCAGAGC	GCTTGGTGCA	AGAAGCTTTG	AATAAGGACT	4500
rgaagggg/	AC	GACAACCATT	ATTATTGCTC	AAAAAATTAG	CTCGGTTGTC	CATGCAGACA	4560
AGATCTTG	GT	TCTAAATCAA	GGACGATTGA	TTGGTCAAGG	TACGCATGCA	GACTTGGTTG	4620
CCAACAATO	GC	CGTTTACCGT	GAAATCTATG	AAACACAGAA	ATGAAAGACA	AACTATAAGA	4680
AAAGTCAA!	TA	GTTTTATCTA	AACTATTTCT	TATTTCAATT	TGATGATTTG	GCGATGATTT	4740
PAGAGCACO	GG	CAAAAAGCCC	TTGAAAAAGT	CCATTTTTTC	AAAGGTAATC	CTGTGTTAAT	4800
PTCAGAAA1	тт	ACATCACTTT	TTGTTCGTCA	AATGGCAGCT	CTTTTTTTAG	GATATAAAAC	4860
AGGGTTCGC	GA	TAAGTTTTTT	TGCAAGGTGG	ATGATGGCTA	CATTGTAATG	TTTTCCTTGT	4920
CTAATTT?	AG	TCTTAAGATA	GGCCTTAAAA	GCAGGCGAAA	AGCGAGGGCA	TGCTTTGGCA	4980
CTTGTATO	GA	GTACCTACCG	CAGATGAGGG	GAACTCCGTT	TGACCATTCT	TCCTGCTAAA	5040
rcaatctg/	ΑT	CTGACTGATA	AATAGAAGAA	TCCAGTCCAG	CGAAAGCTTG	TAATTGAGCA	5100
GATTATCA	A.A	AGGCATGAAT	ATTTCGAATC	TCAGCTAAAA	TGACCGCCCC	TAAACGATCC	5160
CAATCCCA	AG	TAACCGTCGT	GATGACCGAG	TTGAACTCAG	CCATCAAGTC	ATTGACACAT	5220
GTTTCCGCC	CT	TGTCAATGAG	CCTCTTGTAA	TGTTTGATGT	TTTCATTACA	CGAGATAAAA	5280
CGTCTATGC	CG	TTATCAAACT	CATTACCAAT	TAAAACAAAA	AGCTGTGGTT	AGATCCTTTC	5340
GAAATTGT	ľC	AAGCGATTGG	AGGAAATGAA	CTAATCCACA	GCGGCTTATT	CCAAGTATAC	5400
CACTTGGGC	CT	TTGGCAGTAG	CTAACTGCGC	TAAATATAAT	ATAAGGAGGA	GTAAAATGAA	5460
BACAGTTC	<b>A</b> A	TTTTTTTGGC	ATTATTTTAA	GGTCTACAAG	TTCTCATTTG	TAGTTGTCAT	5520
CTGATGAT	ГT	GTTCTGGCGA	CTTTTGCCCA	AGCCCTCTTT	CCAGTCTTTT	CTGGACAAGC	5580
GTGACGC	<b>A</b> G	CTAGCCAATT	TAGTTCAAGC	ТТАТСААААТ	GGCAATCCAG	AACTTGTATG	5640

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			230			
GCAAAGCCTA	TCAGGAATCA	TGGTCAATCT	TGGCCTGCTG	GTTTTGGTTC	TATTTATCTC	5700
TAGTGTAATA	TACATGTGTC	TCATGACGCG	CGTGATTGCA	GAATCGACCA	ACGAGATGCG	5760
CAAAGGCCTC	TTTGGTAAGC	TTGCTCAGTT	GACGGTTTCT	TTCTTTGACC	GTCGACAAGA	5820
TGGCGATATC	CTGTCTCATT	TTACCAGTGA	TTTGGATAAT	ATCCTCCAAG	CCTTTAACGA	5880
AAGCTTGATT	CAGGTCATGA	GCAATATTGT	TTTATACATT	GGTCTGATTC	TTGTCATGTT	5940
TTCGAGAAAT	GTGACGCTGG	CTCTCATCAC	CATTGCCAGC	ACCCCATTGG	CTTTCCTTAT	6000
GCTGATTTTC	ATCGTGAAAA	TGGCACGCAA	ATACACCAAC	CTCCAGCAGA	AAGAGGTAGG	6060
GAAGCTCAAC	GCCTATATGG	ATGAGAGCAT	CTCAGGCCAA	AAAGCCGTGA	TTGTGCAAGG	6120
AATTCAAGAG	GATATGATGG	CAGGATTTCT	TGAACAAAAT	GAGCGCGTGC	GCAAGGCAAC	6180
CTTTAAAGGA	AGAATGTTCT	CAGGAATTCT	TTTCCCTGTC	ATGAATGGGA	TGAGCCTGAT	6240
TAATACAGCC	ATCGTCATCT	TTGCTGGTTC	GGCTGTACTT	TTGAATGATA	AGTCTATTGA	6300
AACAAGTACA	GCCCTAGGTT	TGATTGTTAT	GTTTGCACAA	TTTTCACAGC	AGTACTACCA	6360
GCCTATTATC	CAAGTTGCAG	CGAGTTGGGG	AAGCCTTCAG	TTGGCCTTTA	CTGGAGCTGA	6420
ACGAATTCAG	GAAATGTTTG	ATGCAGAGGA	GGAAATCCGA	CCTGAAAAGG	CTCCAACCTT	6480
CACTAAGTTG	CAAGAAAGTG	TTGAAATCAG	TCATATCGTT	TTTTCATACT	TGCCTGATAA	6540
ACCTATTTTG	AAAGATGTCA	GCATTTCTGC	CCCTAAAGGC	CAGATGACAG	CAGTTGTTGG	6600
GCCGACAGGT	TCAGGAAAAA	CGACTATTAT	GAACCTCATC	AATCGCTTTT	ATGATGTTGA	6660
TGCTGGTGGT	ATTTATTTTG	ATGGTAAAGA	CATTCGTGGC	TATGACTTAG	ATAGTCTTAG	6720
AAGCAAGGTG	GGAATTGTAT	TGCAAGATTC	GGTCTTGTTT	AGCGGAACGA	TTAGAGACAA	6780
TATCCGATTT	GGTGTGCCAG	ATGCTAGTCA	GGAAATGGTT	GAGGTAGCAG	CAAAAGCAAC	6840
CCACATTCAC	GACTATATCG	AAAGTTTGCC	TGATAAGTAC	GATACTCTTA	TTGATGATGA	6900
CCAGAGCATC	TTTTCAACAG	GGCAGAAGCA	ATTGATTTCA	ATCGCTCGAA	CCCTGATGAC	6960
AGATCCAGAA	GTTCTCATTC	TCGATGAAGC	AACTTCAAAC	GTAGATACGG	TGACAGAAAG	7020
CAAGATTCAG	CATGCCATGG	AGGTGGTTGT	AGCAGGTAGA	ACTAGTTTCG	TCATTGCCCA	7080
CCGCTTGAAA	ACCATTCTCA	ATGCAGATCA	GATTATTGTC	CTTAAAGATG	GAGAAGTCAT	7140
TGAACGTGGT	AACCACCATG	AACTTTTGAA	GCTAGGTGGC	TTTTATTCAG	AACTCTATCA	7200
CAATCAATTT	GTTTTCGAAT	AAGAAAGAAG	TTGTCCTATG	TGGGCAGCTT	TTTCTTGTCC	7260
атаааааатс	TTTATCACAG	CCTTAAAAAA	AACATATTAG	ACGAAAGTCA	TTTTGAGTGA	7320
TATGATAGGA	CTATCGTTAG	CATTCGAAAG	GAGAGGCATC	ATGGCTAGAA	CGGTTGTAGG	7380
AGTTGCTGCA	AATCTATGTC	CCGTAGACGC	AGAAGGCAAA	ATCATTCATT	CATCTGTATC	7440

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TTGTAGATTC	GCAGAGATCA	TTCGTCAAGT	CGGTGGTCTC	CCTTTAGTCA	TTCCTGTTGG	7500
TGATGAGTCA	GTTGTACGTG	ATTATGTGGA	AATGATTGAC	AAACTCATTT	TGACAGGAGG	7560
CCAAAATGTT	CATCCTCAGT	TTTATGGAGA	GAAAAAGACC	GTCGAGAGCG	ATGATTACAA	7620
TCTGGTCCGT	GACGAATTTG	AATTGGCACT	CTTGAAGGAA	GCGCTTCGTC	AGAATAAACC	7680
AATTATGGCA	ATCTGTCGCG	GTGTCCAACT	TGTCAATGTT	GCCTTTGGTG	GAACCCTCAA	7740
TCAAGAAATC	GAAGGTCAGG					7760

#### (2) INFORMATION FOR SEQ ID NO: 64:

# (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 2723 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 64:

GAGGTTTTAA	TTCACTTACC	TCTsCCGTAT	CTTTATTTAA	AATGAATTCT	TTTACGGTTG	60
TATTTCTTGC	AAAATCTTTT	ACAACAATCT	TAATGTTTAG	TGTCTTGTCT	ATTATTTGTT	120
TAATATCATT	AAATGATGTA	TATTCTTTTC	САТТТАТАТА	AATATGTTGT	TCTTGAATCT	180
CACCATCGAA	TCCATTATTT	CTTTTATCAT	TGATGTTAAA	GACTACAGAT	TTTCCATCAG	240
CATATTCGAT	ACTAGTATTT	CCCTTAGGAT	CAATGTTTAC	TTCGGGTTTA	ACATTATCAT	300
ATAAAAACTG	ATAGTGGACT	CCAACTGCTT	TAGCATTCAA	ATCGCTATAG	CCAGTTTGAA	360
GATAAACATT	TCCATCCATA	TCTGTTACCT	TATCTGGAAA	TCCGTTTGCT	TTATAGTCTT	420
TCATTCCCCA	GTCCATGATG	TCACCGTCTT	TAACATTCAG	СТТААТАТТА	AAATCTCTAG	480
TGTTATCAAT	GTGTAAATCT	CCGTAGATTA	AATAATTATC	TACAACCGAT	TCATTAACTC	540
TCAATTCCCA	GTTAAAACCA	CCCTTATCAG	AAATCTTACC	тстталатал	AATTCTGGAT	600
TTCGTACATA	ATTTTTAA	GATTTAGATG	GATTAAAGTA	GTTCTTATCC	ATTGAAAGGT	660
TTACTGGTTT	GGTATCAATA	AATAACATGG	AGCCATCTTC	TTTTATAGCT	TCTACATTGA	720
ACTTATCCTC	TCCAGTGTAT	TCTTTATCAT	CCTTACCAAA	TAATACAAGT	TTAGAAGAAT	780
CTGTCACAAG	ATTTCCGTCT	TTATCGATAG	CTTCCCCTTT	ATCGTTCATT	TTAAATGTAA	840
ACACTTGATA	CCTTATAATG	TTAAAGCCGT	CCAAAGCCGA	CATTAATACA	GATTGGGTAC	900
TTCTTCCATC	TTCAACATTT	CTACTATCAG	CATAAATTGT	TGTTTCTGAA	AGGGCTCTTA	960
GATTAGGATT	GGCCTTTTGT	ATTTTTGCTA	TATCTTCCTT	GCTATAGACT	CCATTTCCTT	1020

СТААСАТАТС	CGTTTTTCCA	GGATTATAGG	538 TAGTCACTTT	TAGTGCATAG	CCTTTTCTTA	1080
SAATGATATT	ATCCTTTAAC	AGATATTGTT	GTTTTTCTGA	ATCAGAATAG	ATTTTACCAG	1140
ATTCCATTTT	AGTTAAATTG	TCTGGTTTGT	TTTTTGAAAG	ATCTCCTTCC	CCTAATTCTA	1200
GACATTCCC	ATAACTTGAT	ACATAGGGAT	ATTCTGATTT	AGTTTCCTTA	ATTTTTTCAG	1260
CATTCTAAT	TTTAATTTCA	GCTTTTTTCT	GATCATTATC	TTTAACAAAT	AATCTCATAT	1320
CTCCTGCAAA	AGCTAATCCA	TCCACAATAT	САТТААТАТТ	AGCGTATAGA	TCAAATGTCA	1380
CGTTTTTGA	GTGGAAATCA	TACTTGGTCG	CTTTGATTTC	TATAGATTTA	TAGTTATTCC	1440
CATAATATAC	CTTGGCATTT	TTAGAAACAT	TACTTATCTT	TCCAAGAATT	TCAAAGTGTC	1500
CATCTTTAGA	CGGACTTAGA	ACACCATAAA	TTTTTGATTT	GATTTCGTCA	AGTTTCTCAG	1560
PTTCATATTC	TAGATCAGTC	CCATCATCGT	AGGCTATTAT	ATTTCCTTTA	TCATCGTATT	1620
PATAATCGTA	TTCCTCCATT	CTCTTACCAG	TTTCACTTGT	AAAATCATCA	ACTTCTCTAA	1680
ATTTCTTTT	AATGAGTTTC	TTTAAGTCTT	TATTTTCAAA	GTCTCTAATT	GTTGAAATAT	1740
TCTATCAAT	AGTAAAACTA	GATTTTTCTT	TAATAGACTC	TTCATTTTCT	TGATGATGAT	1800
STTCTACCCC	AGTTGTATCT	TTTTTTAGAC	TACCCTCTTT	TCCATTTCCT	AAATTTTTAA	1860
ATTTAGATTC	TGCAATCTCG	CCAAGCTTTT	GATATTTAGA	TGAATCTTGA	TCAGGATCTA	1920
TAGATAATA	GGAAATCATC	CCCTTTTCAT	CAGCCTGATT	AGCAAATTTA	ATTCTATGAA	1980
PCTTTGTGAA	ATTGCTAGAA	CCATCTAATG	CAATGACTTC	AATGATTTTT	CCCCTTAAAT	2040
TCCCGCACC	TTTAATTTCA	TAAATGGTAT	TTCCGTCTTT	ATCAAGTTTT	CTATTTCTTC	2100
TTGACCCTC	ACCTGCGTAA	GTTACTTCAA	GATTTTTTC	AACCTCTCCA	TCTTCATTAA	2160
CAAGAGCGGC	GCCAGCATAC	CAAACTTCGT	TCGCAATCTC	GTCAAATTTT	TCAGGATGTT	2220
TTTTTGATC	TCTCGCAAAT	AGCGTTTCAT	TCTTATACTG	ATCTTTTACC	TTATGATAAG	2280
TATCCTTTGT	AATCAACTTA	ATTTTTTCAG	GATTTGAAAA	ATCAACCGAA	ACAATCTTAG	2340
GCCGCTGTT	ATCAATTTTT	ACAGGAATAT	AGGAAACCTG	CCATGGGTAA	TCTTTAGTTA	2400
TCTATATTT	AAATTTATAG	AAATATTGAC	CTTCCGCAAT	CGGTTCAAAT	TGACCTCTTA	2460
CTTAGTAGC	AGGATCTTGA	TTATCCTTAC	TTTCTGGTGC	ATTTTCTTCT	CTACCTCTAG	2520
SATTATAGAT	GAGTCCATCC	CACTTCAAGT	CACCCCAAAC	TTTTAGTTTA	GATGATTTGA	2580
TCCCTTTGC	ATCATTGCTT	TTAGAATTTA	AAATTCCTCT	AATAAAGTGT	TCTCTCGAAA	2640
GACTTTTAA	GTCTCTTTGA	TTTTCTCCCT	CTTTATTTGT	ATTTACTATT	GAAATCAATC	2700
TTCTTCTGC	ACTTCTTAAT	ACA	•			2723

(2) INFORMATION FOR SEQ ID NO: 65:

WO 98/18931

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(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 11831 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 65:

AAAAAAGTGG	GAATGACTCA	AATCTTCACT	GAAGCTGGCG	AATTGATCCC	TGTAACAGTT	60
ATTGAAGCAA	CTCCAAACGT	TGTTCTTCAA	GTTAAAACTG	TTGAAACAGA	CGGATACAAC	120
GCTATCCAAG	TTGGTTTCGA	TGACAAACGC	GAAGTATTGA	GCAACAAACC	TGCTAAAGGA	180
CATGTAGCGA	AAGCTAACAC	GGCTCCTAAG	CGCTTCATTC	GTGAATTCĄA	AAACGTTGAA	240
GGCTTGGAAG	TTGGTGCTGA	AATTACAGTT	GAAACATTCG	CAGCTGGAGA	CGTTGTTGAC	300
GTAACGGGTA	CTTCTAAAGG	TAAAGGTTTC	CAAGGTGTTA	TCAAACGCCA	CGGACAATCA	. 360
CGTGGACCAA	TGGCTCACGG	TTCTCGTTAC	CACCGTCGTC	CAGGTTCTAT	GGGCCTGTT	420
GCACCTAACC	GCGTATTCAA	AGGTAAAAAC	CTTGCAGGAC	GTATGGGTGG	CGACCGCGTA	480
ACAATTCAAA	ACCTTGAAGT	TGTACAAGTT	GTTCCAGAAA	AGAACGTTAT	CCTTATCAAA	540
GGTAACGTAC	CAGGTGCTAA	GAAATCTCTT	ATCACTATCA	AATCAGCAGT	TAAAGCTGGT	600
AAATAATAAA	GAAAGGGGAA	ATCAGTCACA	ATGGCAAACG	TAACATTATT	TGACCAAACT	660
GGTAAAGAAG	CTGGCCAAGT	TGTTCTTAGC	GATGCAGTAT	TTGGTATCGA	ACCAAATGAA	720
TCAGTTGTGT	TTGATGTAAT	CATCAGCCAA	CGCGCAAGCC	TTCGTCAAGG	AACACACGCT	780
GTTAAAAACC	GCTCTGCAGT	ATCAGGTGGT	GGACGCAAAC	CATGGCGTCA	AAAAGGAACT	840
GGACGTGCTC	GTCAAGGTTC	TATCCGCTCA	CCACAATGGC	GTGGTGGTGG	TGTTGTCTTC	900
GGACCAACTC	CACGTTCATA	CGGCTACAAA	CTTCCACAAA	AAGTTCGTCG	CCTAGCTCTT	960
AAATCAGTTT	ACTCTGAAAA	AGTTGCTGAA	AACAAATTCG	TAGCTGTAGA	CGCTCTTTCA	1020
TTTACAGCTC	CAAAAACTGC	TGAATTTGCA	AAAGTTCTTG	CAGCATTGAG	CATCGATTCT	1080
AAAGTTCTTG	TTATCCTTGA	AGAAGGAAAT	GAATTCGCAG	CTCTTTCAGC	TCGTAACCTT	1140
CCAAACGTGA	AAGTTGCAAC	TGCTACAACT	GCAAGTGTTC	TTGACATCGC	AAATAGCGAC	1200
AAACTTCTTG	TCACACAAGC	AGCTATCTCT	AAAATCGAGG	AGGTTCTTGC	ATAATGAATT	1260
TGTATGATGT	татсаааааа	CCTGTCATCA	CTGAAAGCTC	AATGGCTCAA	CTTGAAGCAG	1320
GAAAATATGT	ATTTGAAGTT	GACACTCGTG	CACACAAACT	TTTGATCAAG	CAAGCTGTTG	1380
AAGCTGCTTT	CGAAGGTGTT	AAAGTTGCCA	ATGTTAACAC	AATCAACGTA	AAACCAAAAG	1440

			340			
CTAAACGTGT	TGGACGTTAC	ACTGGTTTTA	CTAACAAAAC	TAAAAAAGCT	ATCATCACAC	1500
PTACAGCTGA	TTCTAAAGCA	ATCGAGTTGT	TTGCTGCTGA	AGCTGAATAA	TCTAAGGAGG	1560
AAATATCGTG	GGAATTCGTG	TTTATAAACC	AACAACAAAC	GGTCGCCGTA	ATATGACTTC	1620
PTTGGATTTC	GCTGAAATCA	CAACAAGCAC	TCCTGAAAAA	TCATTGCTTG	TTGCATTGAA	1680
GAGCAAGGCT	GGTCGTAACA	ACAACGGTCG	TATCACAGTT	CGTCACCAAG	GTGGTGGACA	1740
CAAACGTTTC	TACCGTTTGG	TTGACTTCAA	ACGTAATAAA	GACAACGTTG	AAGCAGTTGT	1800
PAAAACAATC	GAGTACGATC	CAAACCGTTC	TGCAAACATC	GCTCTTGTAC	ACTACACTGA	1860
CGGTGTGAAA	GCATACATCA	TCGCTCCAAA	AGGTCTTGAA	GTAGGTCAAC	GTATCGTTTC	1920
AGGTCCAGAA	GCAGATATCA	AAGTCGGAAA	CGCTCTTCCA	CTTGCTAACA	TCCCAGTTGG	1980
PACTTTGATT	CACAACATCG	AGTTGAAACC	AGGTCGTGGT	GGTGAATTGG	TACGTGCTGC	2040
rggtgcatct	GCTCAAGTAT	TGGGTTCTGA	AGGTAAATAT	GTTCTTGTTC	GTCTTCAATC	2100
AGGTGAAGTT	CGTATGATTC	TTGGAACTTG	CCGTGCTACA	GTTGGTGTTG	TCGGAAACGA	2160
ACAACATGGA	CTTGTAAACC	TTGGTAAAGC	AGGACGTAGC	CGTTGGAAAG	GTATCCGCCC	2220
AACAGTTCGT	GGTTCTGTAA	TGAACCCTAA	CGATCACCCA	CACGGTGGTG	GTGAAGGTAA	2280
AGCACCAGTT	GGTCGTAAAG	CACCATCTAC	TCCATGGGGC	AAACCTGCTC	TTGGTCTTAA	2340
AACTCGTAAC	AAGAAAGCGA	AATCTGACAA	ACTTATCGTT	CGTCGTCGCA	ACGAGAAATA	2400
ATATTAAACT	AGTCGCTTAA	GCAACTAGTA	AATCCGCCAG	CTCGGTAGCG	CTCCATAGGA	2460
GTGCAAGCCG	CTGTGGTACA	ACATTTAAAG	GAGAAAATAT	AAAAATGGGA	CGCAGTCTTA	2520
AAAAAGGACC	TTTCGTCGAT	GAGCATTTGA	TGAAAAAAGT	TGAAGCTCAA	GCTAACGACG	2580
<b>AAAAGAAAAA</b>	AGTTATTAAA	ACTTGGTCAC	GTCGTTCAAC	GATCTTCCCA	AGTTTCATTG	2640
GTTACACTAT	TGCAGTTTAT	GACGGACGTA	AACACGTACC	TGTTTACATC	CAAGAAGACA	2700
PGGTAGGCCA	CAAACTTGGT	GAATTTGCAC	CAACTCGTAC	TTACAAAGGT	CACGCTGCAG	2760
ACGACAAGAA	AACACGTAGA	AAATAAGGAG	AACATAAATG	GCAGAAATTA	CTTCAGCTAA	2820
AGCAATGGCT	CGTACAGTAC	GTGTTTCACC	TCGTAAATCA	CGTCTTGTTC	TTGATAACAT	2880
CCGTGGTAAA	AGCGTAGCCG	ATGCAATCGC	AATCTTGACA	TTCACTCCAA	ACAAAGCTGC	2940
FGAAATCATC	TTGAAAGTTT	TGAACTCAGC	TGTAGCTAAC	GCTGAAAACA	ACTTTGGTTT	3000
GGATAAAGCT	AACTTGGTAG	TATCTGAAGC	ATTCGCAAAC	GAAGGACCAA	CTATGAAACG	3060
PTTCCGTCCA	CGTGCGAAAG	GTTCAGCTTC	ACCAATCAAC	AAACGTACAG	CTCACATCAC	3120
PGTAGCTGTT	GCAGAAAAAT	AAGGAGGTAA	AATCGTGGGT	CAAAAAGTAC	ATCCAATTGG	3180
PATGCGTGTC	GGCATCATCC	GTGATTGGGA	TGCCAAATGG	TATGCTGAAA	AAGAATACGC	3240

GGA	TTACCTT	CATGAAGATC	TTGCAATCCG	TAAATTCGTT	CAAAAAGAAC	TTGCTGACGC	3300
AGC	AGTTTCA	ACTATTGAAA	TCGAACGCGC	AGTAAACAAA	GTTAACGTTT	CACTTCACAC	3360
rgc	TAAACCA	GGTATGGTTA	TCGGTAAAGG	TGGTGCTAAC	GTTGATGCaC	TCCGTGCAAA	3420
ACT	ТААСААА	TTGACTGGAA	AACAAGTACA	CATCAACATC	ATCGAAATCA	AACAACCTGA	3480
ГТT	GGATGCT	CACCTTGTAG	GTGAAGGAAT	TGCTCGTCAA	TTGGAGCAAC	GTGTTGCTTT	3540
CCG	TCGTGCA	CAAAAACAAG	CAATCCAACG	TGCAATGCGT	GCTGGAGCTA	AAGGAATCAA	3600
AAC	TCAAGTA	TCAGGTCGTT	TGAACGGTGC	AGATATCGCC	CGTGCTGAAG	GATACTCTGA	3660
AGG	AACTGTT	CCGCTTCACA	CACTTCGTGC	AGATATCGAT	TACGCTTGGG	AAGAAGCAGA	3720
TAC	TACATAC	GGTAAACTTG	GTGTTAAAGT	ATGGATCTAC	CGTGGTGAAG	TTCTTCCAGC	3780
rcg	TAAAAAC	ACTAAAGGAG	GTAAATAACC	AATGTTAGTA	CCTAAACGTG	TTAAACACCG	3840
rcg	TGAGTTC	CGTGGAAAAA	TGCGCGGTGA	AGCAAAAGGT	GGAAAAGAAG	TAGCATTCGG	3900
rga	ATACGGT	CTTCAAGCTA	CAACTAGCCA	CTGGATCACT	AACCGCCAAA	TCGAAGCTGC	3960
rcg	TATCGCC	ATGACTCGTT	ACATGAAACG	TGGTGGTAAA	GTTTGGATTA	AAATCTTCCC	4020
ACA	CAAATCA	TACACTGCTA	AAGCTATCGG	TGTGCGTATG	GGATCTGGTA	AAGGGCACC	4080
rga	AGGTTGG	GTAGCACCAG	TTAAACGTGG	TAAAGTGATG	TTCGAAATCG	CTGGTGTATC	4140
rga	AGAGATT	GCACGTGAAG	CGCTTCGACT	TGCTAGCCAC	AAATTGCCAG	TTAAATGTAA	4200
АТТ	CGTAAAA	CGTGAAGCAG	AATAAGGAGA	AGGCATGAAA	CTTAATGAAG	TAAAAGAATT	4260
rgt	TAAAGAA	CTTCGTGGTC	TTTCTCAAGA	AGAACTCGCG	AAGCGCGAAA	ACGAATTGAA	4320
AAA	AGAATTG	TTTGAACTTC	GTTTCCAAGC	TGCTACTGGT	CAATTGGAAC	AAACAGCTCG	4380
TT	GAAAGAA	GTTAAAAAAC	AAATCGCTCG	CATCAAAACA	GTTCAATCTG	AAGCGAAATA	4440
ATA	GACTAGG	GAAGGAGAAA	TTTCAATGGA	ACGCAATAAT	CGTAAAGTTC	TTGTTGGACG	4500
rgt	TGTATCT	GACAAAATGG	ACAAGACAAT	CACAGTTGTA	GTTGAAACAA	AACGTAACCA	4560
ccc	AGTCTAT	GGTAAACGTA	TTAACTACTC	TAAAAAATAC	AAAGCTCATG	ATGAAAACAA	4620
rgt	TGCCAAA	GAAGGCGATA	TCGTACGTAT	CATGGAAACT	CGCCCGCTTT	CAGCTACAAA	4680
ACG	TTTCCGT	CTTGTAGAAG	TTGTTGAAGA	AGCGGTCATC	ATCTAATCAA	ACCTGAAAGG	4740
AGA	AAACTGA	AATGATTCAA	ACAGAAACTC	GTTTGAAAGT	CGCAGACAAC	AGCGGTGCTC	4800
GCG	AAATCTT	GACTATCAAA	GTTCTTGGTG	GTTCAGGACG	TAAATTTGCA	AACATCGGTG	4860
ATG	TTATCGT	GGCATCTGTA	AAACAAGCTA	CTCCTGGTGG	TGCGGTTAAA	AAAGGTGACG	4920
rtg	TTAAAGC	AGTTATCGTT	CGTACTAAAT	CAGGTGCTCG	TCGTGCTGAT	GGTTCATACA	4980

			542			
TCAAATTTGA	CGAAAACGCA	GCAGTTATCA	TCCGTGAAGA	CAAAACTCCT	CGCGGAACAC	5040
GTATCTTTGG	CCCAGTTGCA	CGTGAATTGC	GTGAAGGTGG	CTTCATGAAG	ATCGTGTCAC	5100
TTGCTCCAGA	AGTACTTTAA	TTTTTAGGAA	CAAACTAGTC	CCCTAGCTTC	AAGCTAGGGT	5160
GCCCTTATGG	GCGTAAGAAA	AATCAAGGAG	AAACCTAATG	TTTGTAAAAA	AAGGCGACAA	5220
AGTTCGCGTA	ATCGCTGGTA	AAGATAAGGG	AACAGAAGCT	GTTGTCCTTA	CTGCCCTTCC	5280
AAAAGTAAAC	AAAGTTATCG	TTGAAGGTGT	TAACATTGTT	AAGAAACACC	AACGTCCAAC	5340
TAACGAGCTT	CCTCAAGGTG	GTATCATCGA	GAAAGAAGCA	GCTATCCACG	TATCAAACGT	5400
TCAAGTTTTG	GACAAAAATG	GTGTAGCTGG	TCGTGTTGGA	TACAAATTTG	TAGACGGTAA	5460
AAAAGTTCGC	TACAACAAAA	AATCAGGCGA	AGTGCTTGAT	TAATCACGAA	GGAAAGGAGA	5520
agtataatgg	CAAATCGTTT	AAAAGAAAAA	TATCTTAATG	AAGTAGTTCC	TGCTTTGACA	5580
GAACAATTCA	ACTACTCATC	AGTGATGGCT	GTGCCTAAAG	TAGATAAGAT	TGTTTTGAAC	5640
ATGGGTGTTG	GTGAAGCTGT	ATCAAACGCT	AAAAGCCTTG	AAAAAGCTGC	TGAAGAATTG	5700
GCACTTATCT	CAGGTCAAAA	ACCACTTATC	ACTAAAGCTA	AAAAATCAAT	CGCCGGCTTC	5760
CGTCTTCGTG	AAGGTGTTGC	GATCGGTGCA	AAAGTTACCC	TTCGTGGTGA	ACGTATGTAC	5820
GAATTCTTGG	ATAAATTGGT	ATCAGTTTCA	CTTCCACGTG	TACGTGACTT	CCACGGTGTC	5880
CCAACAAAAT	CATTTGATGG	ACGCGGGAAC	TACACACTTG	GTGTGAAAGA	ACAATTAATC	5940
TTCCCAGAAA	TCAACTTCGA	TGACGTTGAC	AAAACTCGTG	GTCTTGACAT	CGTTATCGTA	6000
ACAACTGCTA	ACACTGACGA	AGAGTCACGT	GCATTGCTTA	CAGGCCTTGG	AATGCCTTTT	6060
GCAAAATAAT	ATAGGAGGTA	AATCTAATGG	CTAAAAAATC	AATGGTAGCT	AGAGAGGCTA	6120
AACGCCAAAA	AATTGTTGAC	CGTTATGCTG	AAAAACGTGC	TGCATTAAAG	GCGGCAGGGG	6180
ACTACGAAGG	TTTATCTAAA	TTACCTCGCA	ACGCCTCACC	GACTCGTTTA	CATAATCGTT	6240
GTAGGGTTAC	GGGCCCCA	CATTCAGTTT	ACCGCAAATT	TGGTCTGAGT	CGTATCGCTT	6300
TTCGCGAACT	TGCGCATAAA	GGTCAAATTC	CTGGTGTAAC	AAAAGCATCT	TGGTAATTTA	6360
AGATATCAAG	AGCGTCAAAA	CTCCAAGTAA	AAATAGGAAA	CTTGACGAAG	AAACTAAAGT	6420
TTCTAGGAAA	GTTTATCTTT	TTCACACAGA	GTTTAGCCCG	GGTTCAATTG	GGCTTGCCAA	6480
TTTGAACACG	AGCTACAGCT	TTGGCAAAAA	AGACCAATTT	GCTTTGGAGC	ATTGCTTCTG	6540
CATTAAATTG	TCTATTTTTG	CTCGTGCTGT	TACGCTCTTT	GTATCATGTA	TTAACTAGCA	6600
AGTGCAACTT	GCAAACTACT	AGTAAGAGGA	GAAAAACAAA	ATGGTTATGA	CTGACCCAAT	6660
CGCAGACTTC	CTAACTCGTA	TTCGTAATGC	TAACCAAGCT	AAACACGAAG	TACTTGAAGT	6720
ACCTGCATCA	AACATCAAAA	AAGGGATTGC	TGAAATCCTT	AAACGCGAAG	GTTTTGTAAA	6780

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AAACGTTGA	A ATCATTGAAG	ATGACAAACA	AGGCGTCATC	CGTGTATTTC	TTAAATACGG	6840
ACCAAATGG	T GAGAAAGTTA	TCACTAACTT	GAAACGTGTT	TCTAAACCAG	GACTTCGTGT	6900
СТАСАААА	A CGTGAAGACC	TTCCAAAAGT	TCTTAACGGA	CTTGGAATTG	CCATCCTTTC	6960
AACTTCTGA	A GGTTTGCTTA	CTGATAAAGA	AGCACGCCAA	AAGAATGTTG	GTGGTGAGGT	7020
TATCGCTTA	C GTTTGGTAAA	ATCAAGATAC	AAAGCTCGTA	AAGAACAAAG	CAAAATTAGG	7080
AAGTTGGAG	A AGTTTGTTTA	CAAACAAGCC	AACTTATCTA	TTTTGCACAG	TTCTTAGAGC	7140
GTGTTCAGT	T CAGCTCTTGA	ACTAAATAAG	TATCTGAACC	CCGTGAAAAC	TGGCCGTTCT	7200
GGCCTGACA	A TTTAACAGGA	GAAAATAAAC	ATGTCACGTA	TTGGTAATAA	AGTTATCGTG	7260
TTGCCTGCT	G GTCTTGAACT	CGCTAACAAT	GACAACGTTG	TAACTGTAAA	AGGATCTAAA	7320
GGAGAACTT	A CTCGTGAGTT	CTCAAAAGAT	ATTGAAATCC	GTGTGGAAGG	TACTGAAATA	7380
ACTCTTCAC	C GTCCAAACGA	TTCAAAAGAA	ATGAAAACTA	TCCACGGAAC	TACTCGTGCC	7440
CTTTTGAAC	A ACATGGTTGT	TGGTGTATCA	GAAGGATTCA	AGAAAGAACT	TGAAATGCGT	7500
GGGGTTGGT	T ACCGTGCACA	GCTTCAAGGA	TCTAAACTTG	TTTTGGCTGT	TGGTAAATCT	7560
CATCCAGAC	G AAGTTGAAGC	TCCAGAAGGA	ATTACTTTTG	AACTTCCAAA	CCCAACAACA	7620
ATCGTTGTT	A GCGGAATTTC	AAAAGAAGTA	GTTGGTCAAA	CAGCTGCTTA	CGTACGTAGC	7680
CTTCGTTCA	C CAGAACCATA	TAAAGGTAAA	GGTATCCGTT	ACGTTGGTGA	ATTCGTTCGC	7740
CGTAAAGAA	G GTAAAACAGG	TAAATAATGT	TGAGTGGTTG	ATCATCAACC	ACCAACCTAT	7800
TTTCCAACT	T TGTGCATAGC	ACACGATTTA	AAACTAAAGA	GGTGAAAACT	GTGATTTCAA	7860
AACCAGATA	A AAACAAACTC	CGCCAAAAAC	GCCACCGTCG	CGTTCGCGGA	AAACTCTCTG	7920
GAACTGCTG	A - TCGCCCACGT	TTGAACGTAT	TCCGTTCTAA	TACAGGCATC	TACGCTCAAG	7980
TGATTGATG	A CGTAGCGGGT	GTAACGCTCG	CAAGTGCTTC	AACTCTTGAT	AAAGAAGTTT	8040
CAAAAGGAA	C TAAAACTGAA	CAAGCCGTTG	CTGTCGGTAA	ACTCGTTGCA	GAACGTGCAA	8100
ACGCTAAAG	G TATTTCAGAA	GTGGTGTTCG	ACCGCGGTGG	ATATCTATAT	CACGGACGTG	8160
TGAAAGCTT	T GGCTGATGCA	GCTCGTGAAA	ACGGATTGAA	ATTCTAATAG	GAGGACACTA	8220
GAAAATGGC	A TTTAAAGACA	ATGCAGTTGA	ATTAGAAGAA	CGCGTAGTTG	CTGTCAACCG	8280
TGTTACAAA	A GTTGTTAAAG	GTGGACGTCG	TCTTCGTTTC	GCAGCTCTTG	TTGTTGTTGG	8340
TGACCACAA	T GGTCGCGTAG	GATTTGGTAC	TGGTAAAGCT	CAAGAAGTTC	CAGAAGCAAT	8400
CCGTAAAGC	A GTAGATGATG	CTAAGAAAAA	CTTGATCGAA	GTTCCTATGG	TTGGAACAAC	8460
	C C C C C C C C C C C C C C C C C C C	G3 G3 3 BBBGGG	mcca.coma.s.s	CM x mmcmmcs	3.3.COTTCOTTCC	0500

			244			
8580	TGGCAGGTGT	GTTGTGGAAT	AGTTCGTGCC	CTGGTGGTGC	GGAGTTGCCG	AGAAGGTTCT
8640	TTCGTGCAAC	ATCAACATTG	TAACACTCCA	CACTTGGTTC	ACATCTAAAT	GGCAGATATT
8700	GTGGTATTTC	GCTGCCCTTC	TGAAGAAATT	TGAAACGCGC	TTGAAACAAT	TGTTGAAGGT
8760	ACTTTGACTA	AATTÄAAATT	AAATGGCTCA	AAAGGGGATA	TTGGCATAAG	AGTTTCTGAT
8820	GGACTTGGCA	TGTAGCACTT	GTAAAACTGT	CCATCACAAC	CGGACGCATT	AGTCTCCAAT
888	ATCACAGCAG	CCGTGGTATG	ACGCTGCTAT	AAAGAAGATA	CTCTGTTATT	AATTGAACAG
8940	TGTGCACTGT	TTTTAGGGGA	ACTAATGAaG	GAAGAAGTAA	AGTAACAGTT	TATCTCACTT
9000	AGTTGATGGG	CGTATAGGCG	ATGATGACAT	ATAGTCATCT	AAAACTAGAT	ACCATCCCCT
9060	ААААТААААА	AAAAGAGGAG	AGCATTTTAC	TATCGGCGCT	TTTTCTCCCT	GGAGACAACC
9120	CGCGTTGGTC	AGTACGTAAC	GTTCTCGTAA	CCTGCAGAAG	TGAATTGAAA	IGAAACTTCA
9180	CAAAAAGCTC	TCAAAAAGGT	CTGGTCGTGG	GGTAAAACAT	ATCAGGTAAC	GTGGTACTTC
9240	TTCCGTCGTC	AACTCCATTG	AAGGTGGACA	CTTGGTTTTG	CGGAGTTCGC	GTAGCGGTGG
9300	AACCTTGACC	CGCAATTGTG	CTAAAGAATA	AACATCAACG	TGGATTCACT	PTCCAAAACG
9360	GAAGCAGGAA	TGTTCTTATC	TAACTCCAGT	GGTGCTGAAG	CTTTGAAGAT	AATTGAACGT
9420	ACTAAGAAAT	CGGTGAGTTG	TTCTTGGTAA	GGTATTAAAA	TGAAAAGTCA	PTGTTAAAGC
9480	GCTAAAGGTG	AGCTATCACT	CAGCTGAAGA	TTCTCTAAAT	AGCAGCTAAA	rgactgtgaa
9540	AGAGAAGCTC	ATTATTA	CTATGTTTTT	GAGAGGTGAC	AGTCATCTAA	GTTCAGTAGA
9600	TTGGTCTTTC	TTTTATCGTT	TATTTACAAT	TCAAAAATTT	GCAGGTTCGA	<b>PTAAAGTCAA</b>
9660	GCTTTAAGTG	TAGCTTGAAT	TGAATGCCAA	GTTCCTGGTG	TAGCATTACA	GTATCGGAAC
9720	AACTTTTCGA	TGCCCTAAAA	TGTCGGGGAA	TTGAGCTTGG	CTTAAACATG	GATTATCCTT
9780	CTCTTGCAAA	TGTTGTCCAA	CCGCTTCTAT	CCCTATATCA	AGGAGTTAGT	TTTTTGCCCT
9840	CGAAGAAAAT	GGAAGTAGGT	GTAAACAAGG	GTAGAGTGGG	ACCCAAGTTT	rggatatttt
9900	ATCGGGATTA	TGTGCAATCT	TTCTCGCTTT	ATTGCTCTAG	TACTCGTTAT	rgaatcaagc
9960	ACTCCACAAG	AACTGCTTTA	AATTGATTAA	GCTGGAGCTC	TAATACCTTG	CAGCTGGTTT
10020	TGGTTGGGTG	GATTGTCACT	CTGGTAGTAT	ATCTTAACAG	GATTGGTATC	TTTTCTGAC
10080	GCCGGGATTG	GATTATCTTT	GTGTTTCCAT	TACGGAAACG	agataaggga	AGCAAATTAC
10140	AACGTCCCAA	CTACTTTGTG	TCTATGTGGA	ATTCAGGGCA	TCCAGAGATG	PTTCCTCAAT
10200	GTATTGTTGA	GATTATTACT	TAATCATTTT	ATCATTTTCG	CACTTCATCT	GTAGCCGTAT
10260	СААТАТАСТА	AATTCCAATC	CAGAATACAA	GTTCAACAAG	TACAACTTAT	TTATTTACTT
10320	CCTGCTGGAG	AAAAGTAAAC	ACCTTCCGTT	TCTAGCTCTT	AGGTGCTCCA	AGGTTGCACA

TTATCCCTGT	TATCTTTGCC	AGTTCGATTA	CTGCAGCcTG	CGGCTATTCT	TCAGTTTTTG	10380
AGTGCCACAG	GTCATGATTG	GGCTTGGGTA	AGGGTAGCAC	AAGAGATGTT	GGCAACTACT	10440
TCTCCAACTG	GTATTGCCAT	GTATGCTTTG	TTGATTATTC	TCTTTACATT	CTTCTATACG	10500
TTTGTACAGA	TTAATCCTGA	AAAAGCAGCA	GAGARCCTAC	AAAAGAGTGG	TGCCTATATC	10560
CATGGAGTTC	GTCCTGGTAA	AGGTACAGAA	GAATATATGT	CTAAACTTCT	TCGTCGTCTT	10620
GCAACTGTTG	GTTCCCTCTT	CCTTGGTGTG	ATTTCCATTT	TACCGATTGC	AGCTAAAGAT	10680
GTATTTGGTC	TTTCTGATGT	TGTTGCCTTT	GGTGGAACAA	GTCTCTTGAT	CATTATCTCT	10740
ACAGGTATCG	AAGGAATCAA	GCAATTGGAA	GGTTACCTAT	TGAAACGTAA	GTATGTTGGT	10800
TTCATGGACA	GAACAGAATA	AAAGTATTTA	CTGAATCAGT	AAATACTGAG	GGAGTGGAGG	10860
TTTAAACTCT	GACATTTGTA	AGAGTTGGAT	CTCCCCTCTT	CTATTTTGTT	TTTAAATCGG	10920
GGTGAAAAGA	CTTTTTGCTT	СТАТТТАААА	ATAAAATAAG	GAGATCAAAT	CATGAATCTT	10980
TTGATTATGG	GCTTACCTGG	TGCAGGTAAG	GGAACTCAAG	CAGCAAAAAT	CGTAGAACAA	11040
TTCCATGTTG	CACATATCTC	AACAGGTGAT	ATGTTCCGCG	CTGCAATGGC	AAATCAAACT	11100
GAAATGGGTG	TTCTTGCTAA	GTCATATATT	GACAAGGGTG	AATTGGTTCC	TGACGAAGTT	11160
ACAAATGGAA	TCGTAAAAGA	ACGCCTTTCA	CAAGATGATA	TTAAAGAAAC	AGGATTCTTA	11220
TTGGATGGTT	ACCCACGTAC	AATTGAACAA	GCTCATGCCT	TGGACAAAAC	ATTGGCTGAA	11280
CTTGGCATTG	AACTAGAAGG	TGTTATCAAT	attgaagtga	ACCCTGACAG	CCTTTTGGAA	11340
CGTTTGAGTG	GGCGTATCAT	CCACCGCGTA	ACTGGAGAAA	CTTTCCACAA	GGTCTTTAAC	11400
CCACCAGTTG	ACTATAAAGA	AGAAGATTAC	TACCAACGTG	AAGATGATAA	GCCTGAGACA	11460
GTAAAACGTC	GTTTGGATGT	TAATATTGCT	CAAGGAGAAC	CAATCATTGC	TCACTACCGT	11520
GCCAAAGGTT	TGGTTCATGA	CATCGAAGGT	AATCAAGATA	TCAATGATGT	CTTCTCAGAT	11580
ATTGAAAAAG	TATTGACAAA	TTTGAAATAA	AGCGTTTTTC	ACACTTGCAA	AAATCCGCTA	11640
CAAATGTTAT	ACTGAGATAG	TCTGACTTAT	AATTGTTGTC	TCTGTGTCTA	GAGGCATCGA	11700
ATCGAAATTT	ATGGAGGTGC	TTTTGCGTGG	CAAAAGACGA	TGTGATTGAA	GTTGAAGGCA	11760
AAGTAGTTGA	TACAATGCCG	AATGCAATGT	TTACGGTTGA	ACTTGAAAAT	GGACATCAGA	11820
TTTTAGCAGG	G					11831

## (2) INFORMATION FOR SEQ ID NO: 66:

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 10726 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double

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(D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 66:

60	ATTTTAGTCG	AATGCCTTTG	TTATGATGGC	CGTGAAGGAT	GAAAGCTATT	CCCGGCATTT
120	TGGCTGAATA	TTTTACAAAT	CTCAAGAGGC	ATCAGTTGGC	TCTTATTCTA	GCTCTTTATT
180	ATTATCTCCT	AACAGTAGCG	TGAATCAGTC	TTGACAACTA	GCTAAGTATC	GTGTTGGATT
240	GATGGTCCGT	ATATGGTACA	TGTCGGAAGG	GCCTACAGGT	TTTCGGTATT	TGGTCGCTTG
300	TCGAGTATGG	ACCTCGTTTT	TATTGATGGC	TCCAGTTTTG	CATAGCCTTA	CGGCAGGGAT
360	CCATTTTCTA	CGGCGCAATA	AGTTATTTGG	CAGGTCAAGC	AAATGGGGAG	TTTATGATAA
420	GCAGAGATTT	ATTGGTTACA	TTACTATTGG	TTTATGGCGA	ATCTTCTTTG	GCCTGAATGC
480	CCAGATGTAG	AAGTGGTGTC	TAAAAATGCC	GGAATTACGA	TATCCAGCGC	ATCGTATGTT
540	TGGGCTTTGG	TTTTGTTTTG	GTTTTACTAC	CTTTTATCTG	ATTTTCAGCT	TAAGTAAATC
600	CTAGGTGCAA	CAACGGACTC	CAGGAGGTCT	GCAGGAGTTG	TCTTGAAGCG	TCTTAAAAGG
660	CTATGTGTTA	AGGTATGATT	GAACGCTTCC	TTAATTGCAG	ACCGCTTAAG	TTGTTGGAAC
720	AATGCTTTTG	ACAAGTTTTA	TTAATGGGG	TTCTGTGGAG	ATTCTTTTGG	TTGTAAACTC
780	GCAGGACAAA	AGCTGTGGCT	AAAACCAAGA	TTTACTACAG	TTGGTTACAA	TAGACCCAGT
840	GGTGGCGGTG	TGTATTTATT	AAGATTTATT	TTACCGTTTA	CATTATTACA	CACTCCAACA
900	GCGAATAAAA	TAAGAGTCGT	TCCTATTTAG	ATTTGTCTCT	TGGTCTTGCG	GAGCGACTAT
960	ATTCTATTTA	CAATACAGCT	TTTTTAATAT	ATACCGTCTA	GCTAGCTATT	CATTAGGTAA
1020	CCTACAATCA	TATTGCTACT	TGATTCCGTT	CCGATTATGC	AGTTTTAAAT	CGTTTCCAAC
1080	ACAGGTGTAA	ACCCTATACA	TAGGATTAGT	TCAATGGCTG	TACCTATGTA	ATGCCTTGAT
1140	GCTAGTTGGC	TGCAACAGGG	GAGGCTTCCT	CCGATTATAG	GACAATGCCA	TCCTTCCGTG
1200	TATCCATTCT	AGCAATTTAT	TGGTTTCTGT	GTTTTGATTT	ATTACAAGTT	GAGGAGCTCT
1260	GGGAAATAAG	TACTGTTGGA	AAGAAAAAGC	AATCTTGAAA	AGATAAACGC	TCAAAATTGC
1320	CTTAGAGGAA	CTAGCTTTGC	AATACTTATT	TCAACAGAAA	GAGTATTTGA	ATGGTTATCA
1380	GGAGAAGGAA	AGCTTGTCGA	ACTAACATAG	GGTCTTTAAG	ATATGAATCG	TTAAGTTACT
1440	TCTTATCTCA	AAGACCATGT	GAGGACAGAA	AGTCAATAAA	TTGTAGGATT	GCGGATATTT
1500	TATTGGAATT	TAGGTTTACT	AATACAATTG	AATTGAGTCT	GTAAGGGGAG	I'TAGACAAGG
1560	ACATGACTTT	CAGGGCGCAG	TATACTAGAC	TGGGGTTGTG	TTCATGAATT	TACCGAATGT
1620	TGAAACAGCC	TATCTATAGA	GATAAACAGC	AGATTTTTTA	TACGATTTGA	GTTCCAGAGT

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AGTTACTA'	TC ATAGGGGAG	T ATGTATAGAG	GGAGCGGATT	CATTTGAAAA	TATACTAGAT	1680
TTCATTGA:	IT GGCTACCTA	A GATTGGGATG	AACAGTTTTT	TCATCCAGTT	TGAAAATCCT	1740
TACTCTTT	TT TGAAACGTT	G GTATGAACAT	GAATTTAATC	САТАТСТААА	TAAAGAACAA	1800
TTTTCAAA'	IG AATTAGTAC	A AGAATTGAGT	GATAGGTTGG	ATAAAGAATT	GCAAAAAAGA	1860
GGTCTTAT	C ATCATCGTG	T TGGTCATGGA	TGGACAGGTG	AAGTTTTAGG	TTACTCTTCA	1920
<b>AAATTTGG</b>	CT GGGAATCAG	G TCTTAGTATT	TCAGAGGAGA	AGAAACCCTA	TGTCGCTGAA	1980
ATAAACGG	GA AACGAGAAT	T GTTTAATACG	GCTCCGATTT	TAACCAGCCT	GGATTTTTCA	2040
AATCCAGA:	IG TAGCTGATA	a gatggtagaa	ATTATCAAGG	ATTATGCCAA	GAAAAGACCT	2100
GATGTTAA(	CT ACTTACATG	T ATGGTTGTCG	GATGCTCGTA	ATAATATTTG	TGAATGCGAA	2160
Aactgtagi	AC AAGAATTGG	T TTCGGATCAG	TATATTCGTA	TTCTCAATCA	ATTGGATAGG	2220
GCTTTAAC	GA GTGAGGGAT	T AGATACAAAG	ATTIGTTTTC	TGCTTTATCA	TGAGTTGTTA	2280
rgggcacc:	rc agaaagaaa	A ATTAGATAAT	CCTGAACGCT	TTACCATGAT	GTTTGCACCG	2340
attacaag <i>i</i>	AA CATTTGAAA	T GAGTTATGCA	GATGTAGATT	TTGACAATTC	CATACCTACG	2400
CCTAAACC	PT ATATGCGTA	А ТААААТТАТА	CTTCCGAATT	CTCTTGAGGA	AAATTTATCT	2460
PATCTTTT?	rg agtggcaaa	A AGCATTTAAA	GGAGATAGTT	TCGTATATGA	CTATCCTTTA	2520
GGCGTGC	TC ATTATGGCG	A TTTAGGCTAT	ATGAAAATTA	GTCAAACTAT	TTACAGAGAT	2580
GTATCTTAT	C TTTCCAACC	T ACATTTGAAC	GGGTACATTT	CGTGTCAAGA	ATTACGTGCC	2640
GATTCCCT	C ATAATTTC	C TAATTATGTC	ATGGGGGAAA	TGCTCTGGAA	GAAGACAAGA	2700
AGTTATGA/	AG AATTGATTG	A AGAATACTTT	TCTGCTTTGT	ATGGGGAAAA	TTGGCAGTCT	2760
STTGTTGA/	AT ATTTAGAAA	A ATTATCCATT	TATTCCTCTT	GTGATTATTT	TAATGCAATT	2820
GCAGCCGT	TC AAAGTGATG	T TTTAGCGAAT	CATTATTATA	TAGCTTACAA	TCTAGCTGAT	2880
\ATTTTTT/	AC CAATTATTG	A GGAAAATATT	TCTAAGTTAT	TAAATAGTCA	AAAGGATGAA	2940
rggaaacac	SC TCAGTTATC	A TCGTGAATAT	GTTGTTAAGA	TGGCGAAGGC	TTTATATCTT	3000
CAAGCAACT	rg gaaaaacáa	G GCAAGCTCAA	GATGAATGGA	GAAATGTGTT	GAATTATATC	3060
CGTGGGCAC	G AATTGCTAT	т тсаатстаат	TTGGATGTTT	ATCGTGTAAT	TGAAGTAGCA	3120
\AAAATTA(	CG CTGGTTTCC	А СТТАТАААТС	ATAAGTATAG	AAAATGAACT	AAGGTATTCA	3180
GAGAAGATT	G ATCCTAAAT	А ТТАТСАААТТ	TAAGGATTTT	TAAGATATTT	AGGGTCAACT	3240
PTCTATTT	AT ATCGTAGCG	A AGTCATTTA	ATAATGATGT	GTAAAAGATG	GATCAAGATT	3300
AGGAGGA	G AAAGATGAA	A TCAAAAGAAG	AAATAAATAT	GCTTGGTTTT	ACAATTGTCG	3360

			548			
CTTACGCAGG	AGATGCAAGG	TCAGATTTGA	TGGATGCTTT	GGCGTTTGCG	AGAGATGGAT	342
ATTTTGAACA	GGCAAGAGAA	TTGGTTGAGT	CTGCAAACGA	CTCAATAGTG	TCTGCCCATC	348
GAGAACAGAC	TAATTTATTA	GCGGAGGAGG	CATATGGAGA	TAATTTTGAA	GTGAGCTTTA	354
TTATGATTCA	TGGTCAAGAT	ACTTTGATGA	CAACGATGCT	ATTGTATGAT	CAGGTAAAGT	360
ТТТТТАТТСА	TGAATATGAA	CGAATTCGAA	AGATTGAAGA	ACATATTGGT	TTGCAATGAG	366
GATTAGTCAT	GGAAAATTTA	CAGGTTAAAG	CCTTACCGAA	GGAGTTTTTA	TTAGGAACTG	372
CTACCGCTGC	TTATCAAGTA	GAGGGTGCAA	CTAGGGTAGA	TGGCAAAGGA	ATAAATATGT	378
GGGATGTTTA	TTTGCAAGAA	AATAGTCCGT	TCTTACCAGA	TCCAGCTAGT	GATTTTTATT	384
ATCGTTACGA	AGAGGATATA	GCTTTGGCGG	CAGAACATGG	TTTGCAGGCT	TTGCGTTTAT	390
CTATTTCTTG	GGTTCGTATA	TTTCCTGATA	TAGATGGGGA	TGCTAATGTA	TTAGCTGTTC	396
ATTATTACCA	TAGAGTTTTT	CAGTCTTGCT	TAAAACATAA	TGTGATTCCG	TTTGTTTCTT	402
TACATCATTT	TGATTCGCCT	CAGAAAATGT	TAGAAACAGG	GGATTGGTTG	AACAGAGAGA	4086
ATATTGATCG	TTTCATACGA	TATGCTCGCT	TTTGTTTCCA	AGAATTTACA	GAAGTCAAGC	4140
ATTGGTTTAC	AATCAATGAA	CTGATGTCTC	TTGCTGCAGG	ТСААТАТАТА	GGAGGTCAGT	420
TTCCTCCAAA	TCATCATTTT	CAATTATCTG	AAGCAATTCA	AGCGAATCAT	AATATGTTGT	4260
TGGCGCATGC	TCTTGCAGTC	CTCGAATTTC	ATCAATTAGG	GATTGAGGGA	AAGGTAGGTT	4320
GTATTCATGC	TTTAAAGCCA	GGCTATCCTA	TTGATGGGCA	AAAAGAAAAT	ATTTTGGCAG	4380
CTAAACGGTA	TGATGTTTAT	<b>ААТААТАА</b> АТ	TTCTATTAGA	TGGAACTTTT	TTGGGCTACT	4440
ACAGTGAGGA	CACGCTTTTT	CACTTGAATC	aaatattgga	AGCTAATAAT	TCTAGCTTTA	4500
PTATTGAAGA	TGGTGATTTA	GAAATTATGA	AGAGAGCTGC	ACCTCTTAAT	ACGATGTTTG	4560
GGATGAATTA	TTATCGTTCA	GAATTTATTC	GTGAATACAA	AGGTGAAAAT	AGACAAGAAT	4620
TAATTCAAC	AGGAATAAAA	GGACAGTCTT	CTTTTAAATT	AAATGCTCTA	GGTGAATTTG	4680
TAAAAAAACC	TGGTATTCCG	ACAACAGATT	GGGATTGGAA	TATTTATCCT	CAAGGGTTAT	4740
PTGATATGTT	GCTTCGTATC	AAAGAAGAAT	ATCCTCAACA	TCCGGTCATT	ТАТТТААСТС	4800
AAAATGGTAC	AGCCCTTAAA	GAAGTTAAGC	CAGAGGGCGA	GAATGATATT	ATTGATGAÇA	4860
STAAGAGAAT	CCGTTATATT	GAGCAACATT	TACACAAAGT	TTTAGAGGCT	CGAGATAGAG	4920
GAGTCAATAT	TCAAGGCTAT	TTTATATGGT	CTTTGCAAGA	TCAATTTTCT	TGGGCGAATG	4980
GCTACAATAA	GCGATATGGT	CTTTTCTTTG	TTGATTATGA	AACACAGAAG	AGATATATTA	5040
AGAAAAGTGC	TCTTTGGGTA	AAAGGGCTAA	AACGGAATTA	AGGTTAGCGA	TTTGACTGAT	5100
GTTTAATATG	ТТТАААТТТ	GAGGTTGAAT	TTTTTATAGG	AGGAGTTTTA	TGGATAAGCT	5160

AGTCGCTGC	C ATTGAAAAGC	AACAAGGGAA	ATTTGAAAAA	ATTTCTACTA	ATAACTATAT	5220
GATGGCTAT	T AAAGATGGAT	TCATTGCTAC	TATGCCTTTA	ATTATGTTTT	CAAGCTTTTT	5280
Gatgattat	T ATTATGATTC	СТАААААТТТ	CGGAGTAGAG	TTACCGAGTC	CAGCTATTGT	5340
CTGGATGAG	AAAGTGTATA	TGTTAACCAT	GGGAGTTTTG	GGTATTATTG	TTTCAGGGAC	5400
TGTTGGAAA	G TCATTAGTTG	GAAATGTTAA	CAGAAAAATG	CCTCACGGAA	AGGTAATAAA	5460
<b>FGATATTT</b> C	T GCAATGTTGG	CAGCCATATG	TAGTTATCTG	GTATTAACTG	TAACGCTTGT	5520
agttg <b>a</b> tga	G AAGACGGGAT	CTACAAGTTT	GTCGACAAAC	TATTTAGGAT	CTCAAGGATT	5580
GATAACTTC	G TTTGTCAGTG	CCTTTATTAC	TGTAAATGTT	TACCGATTCT	GTATTAAGCG	5640
AGACATTAC	T ATTCATTAC	CTAAGGAAGT	TCCTGGGGCT	ATATCACAAG	CTTTTAGAGA	5700
PATTTTCCC	T TTTTCTTTG	TTTTACTTAT	TAGTGGTTTG	TTAGATATTG	TATCTCGGTT	5760
<b>PAGTTTAGA</b>	T GTTCCTTTTG	CCCAAGTATT	TCAACAACTA	TTGACTCCTA	TTTTTAAGGG	5820
GGCAGAATC	A TATCCTGCTA	TGATGTTGAT	TTGGTTTATG	TGTGCTTTGC	TTTGGTTTGT	5880
rggaattca	T GGACCATCTA	TTGTCTTACC	TGCTGTTACA	GCTTTGCAAC	TGAGCAATAT	5940
GGAAGAGAA	T GCTCAACTTC	TTGCAAATGG	GCAGTTCCCT	TATCATTCTT	TAACACCTAA	- 6000
<b>PTTCGGGAA</b>	T TATATCGCTG	CTATTGGAGG	AACGGGGGCT	ACCTTTGTTG	TACCATTTAT	6060
PTTGATTTT	C TTTATGCGGT	CTAAACAATT	AAAATCGGTA	GGTAAAGCTA	CAATTACTCC	6120
rgttttatt	T GCGGTAAATG	AACCTCTTCT	ATTTGGTATG	CCTGTTATTT	TGAATCCCTA	6180
rctttttgt	C CCTTTTTTGA	TGACTCCACC	agtgaatgta	TTTCTAGGAA	AGGTCTTTAT	6240
<b>IGATTTCTT</b>	T GGAATGAATG	GATTTTATAT	CCAGTTACCT	TGGACCTTTC	CTGGTCCCTT	6300
GGATTGTT	A ATTGGAACGA	ATTTTCAACT	TATCTCCTTT	GTATTTTTAT	CTTTGATTTT	6360
AGTTGTCGA	C ATATTGATTT	ATTTGCCATT	CTGTAGAGCG	TATGATAGAC	AGTTACTGGT	6420
GAAAGAAGA	T ATTGCAAGCT	CAAATGATAT	TATTTTAGAG	GAGGATACAA	GTGAAATAAT	6480
rcctggtga	G ATAGATGAAA	TAAAAAGTAA	GGAGTTGAAA	GTACTGGTTC	TTTGTGCAGG	6540
GTCTGGAAC	A AGTGCGCAAT	TAGCCAATGC	AATTAACGAG	GGGGCTAACT	TAACAGAGGT	6600
<b>PAGAGTGAT</b>	T GCGAATTCAG	GAGCGTACGG	AGCTCATTAT	GATATTATGG	GTGTTTATGA	6660
TATTAATTA	T CTGGCCCCAC	AAGTTCGGAG	TTATTATAGA	GAGATGAAGG	TGGATGCAGA	6720
aagattagg	T ATTCAGATAG	TTGCTACCAG	AGGAATGGAA	TATATTCATT	TAACAAAGAG	6780
rccaagtaa	A GCCTTACAAT	TTGTATTGGA	GCATTACCAA	GCTGTGTAGT	AAGTTTTTCC	6840
чтстттат	T TGAGTAAAGA	TTTTGTTTAC	AGATAGGCTT	GGATTTAAAA	ACGTTCCCCC	6900

TTTTTAATA TAAGAATCCC TCTTTCACAA TTGTAAAAAG AGGGATTTTG TATTTTATCT 6960 CTTAGACCAA GTTCTCTTCA TAAAGAGAAG GAGGATTGGG TAAATCTCCA AGCGCCCTGC 7020 AATCATTGCA AAGGATAGGA GAATTTTTGA GATGGGACTA AAGATTGAGA AACTAGAAGT 7080 GGTTCCTAGA ATAGGCCCGA TATTATTGAA ACAGCTAAAG ACAGCGCTGG TCACGACCAG 7140 AAAATCATTG CTATCTAGGC TGACAATAAA GATAAGCGCT AGCAAAATCA TAGCATAGAT 7200 GACAAAGTAC TTGAGAATCT TATGCTGGGT ATCTTTGTCA ATCACCGTTT TATTAACATG 7260 GAGGGTCAAA ACACGGTGGG GCGATAGGAT TGACAAAATT TGGTTTTTGG CAATTTTTGA 7320 AAGGATGAGG CCTCGAATAA TCTTGAGTCC ACCTGCAGTT GATCCAGCAG AGCCACCGAT 7380 TGCCATGAGG AAAAGGAGGA TAAACTGGGA GAAGAGGGGC CAGTTGGTAA TATCTCCATA 7440 TCCAAAACCA GTTGTTGTAA TGATGTTGGA AACCTGGAAG AAGGTCATTT CAAAGCTCTT 7500 TGAAAACCCT GGGTAGAGGT AGAGGGTGTT GAGGCTAATC AAGCCTGTAG AAACCAGTAC 7560 AATGACCAAG TAAGCCCTAA GCTCTTCATC TCCAAAGAAG GCCTTGATGC GACGGAGCAT 7620 GAGGTAGTAG TAGAGGTTGA AATTTACTCC AAAAACCAGA ACTCCGATAC TGACCAGATA 7680 GGTAATCAGT GAGCTGCCAT AGTGGGCAAT TCCGTCGTTA TAGACGGTAA AGCCTCCAGT 7740 TCCCGCTGTC CCCATAGCAA TAACAAAACT ATCGTAGAGA GGCATACCGG CTAGATAATA 7800 GATGATGACA AAGAGGGAGA AGAGAGCTAG ATAAAGGAGA TAGAGAATCT GGGCAGTGTT 7860 TTTTAGTTTG GATACAACCT TGCCAAAAAC AGGACCTGGA ACCTCAGCCT TCATCACCTC 7920 TAGGTGGCTA TTTTTGGCAT TGTCCATAAT AGCAAGTGCA AAAACAAGCA CTCCCATCCC 7980 TCCAATCAAG TGGGTAAAAC TTCGCCAGAA GAGGAGGGAA CGGCTGAGAA CCGAAACGTC 8040 GTTCAAAATA CTTGCTCCAG TAGTTGTAAA TCCAGAACTA ATTTCAAAAA AGGCATCAAT 8100 AAGGCTGGGG ATTTGCCCAG AAAAGACAAA GGGGAGACCA CCAAAGAAAG ACCAAAGGAT 8160 CCAACAGAGG GCAACGATCA AGACTCCCTC CTTGGCATAA ATCCGTTGAT TTTTTGGCTT 8220 CTGTAAACTC CCTGAACCGC CTAACAATAC GAGAATCCCT ATGGTCGAAA AGAGGGCTGT 8280 AAAGACTTGG CTCGATTCAC GGTAATAGAC AGCAATCGCA ACAGGAACCA AAAGAAGAAC 8340 AGCTTCAATC AAAAGTAATT TTGAAAGGAG GTAACGAATC ATACTTTTAT TCATTTCTTA 8400 CCTCGCGATC AAGTCATAAA TCTTGGTGAT GTTTGGCAAC AAGGTTGTTA CTAGGAGCTT 8460 GTCTCCAACT TCCAACATAT CCTCCCCAGT TGGGAAAATA GTCTTGCCCT TTCGAATAAT 8520 GGCTGCAATA AGAACCCCTT TTTTCAATTT CAGTTGAGAA AGAGGTTTGG CAGTCATTTT 8580 ATTGGCTTCC TTGATATGGA ATTGCAGGGT TTCGATTTGG CCATTGGCTA GATGGTGCAT 8640 AGCTTGAAGG TCTGAATACT GGGCATTAAC TCGACCACGA ATAAAGTGCA TAATCGTATC 8700

TACAGCGATG	CTTTTAGGTG	TGATGATACT	TGAAAAATCA	GGCGCATTGA	TAATCTCGAG	8760
GAGACTGGTA	CGATTGACCT	TAGTAATATT	TTTCTGTACA	CCTACCCTGT	CAAGGAACAT	8820
AGATGTAATC	AGATTTTCCT	CATCGACTCC	TGTTAGAGTC	GCAACGGCAT	CATAGTGTTG	8880
AGCACTTTCT	TCCAGCAGGA	TATCTTTTGC	GGTTCCATCT	CCTTGAACGA	TGTAGAGATT	8940
TGGGAATTTC	TCGCTAAAGA	AGCTGGCGAT	TTCAGGATTG	ATTTCAATGA	CTTTTGTATC	9000
GATACGACTA	TCTTTGAGAA	TACCAAGTAG	ATAATAGGCA	ATTCTACCTG	CCCCAACGAT	9060
GAGAAGGCTC	TTCACGGCGC	GTGATTTAAA	ATAATTATGG	AAGAGTATCA	TATCGACACG	9120
GTTACCAGTG	ACAAAGATTC	TATCTTTATC	CTCTACACTC	ATGTCACCGC	TTGGAATGAT	9180
Aatttgatga	TCCCTCTCTA	TCGCACAGAC	AATGACATTA	CCAAATTTTT	TACGAAAATC	9240
AGAAATGGGC	ATTTGGCAAA	GACCGCTGGT	GGACTTGACG	ACAAATTCCA	TGAGGCTAAC	9300
GCGTCCACCA	GCAAAGCGTT	CGACAGACAG	GGCGTTGGGG	AAGTCAATGA	TATTCGCGAT	9360
AGCGCGGGCA	GCCAAGAGCT	CAGGATTAAC	GATAAGAGAA	AAACCGAGAA	TATTCTTTTC	9420
CTTGAAATAA	GAGTTAGAAT	ATTCAGGGTT	CCGCACCCGA	ACGATAGTTT	CTTTAGCTCC	9480
CATTTTCTTG	GCTAGAACTG	CTGCAATCAT	GTTGACTTCA	TCGTGCTCAG	TCAGGGCGAT	9540
AAAGATATCA	CAATCTTGGA	CGCTGGCTTG	CTCAAGAATG	GCAAAATCGG	CCCCGTTACC	9600
AAGGATACCA	ATGATATCAA	AGCGACTGAC	AATATGATTG	AGAACAGCTT	CGTCTTGCTC	9660
AATCAGCAAA	ACATCATGCT	TTTCTGCAAC	CAAGGAGCGA	CAGAGGGCAA	AACCAACTTT	9720
TCCCCCTCCG	ACAAGGATAA	TTTTCATAAT	AAAACCTACT	TTTTCATGAT	GTAACTATCA	9780
TACCCTTTTT	CAAGAAAAA	TGCACCTACT	AGCTAATAAC	AAGAGTTTTT	AGTGAAAATT	9840
CGCTATAAGG	TAAAACTATA	CCCTAACCAA	TTGAAATAGC	TATTAGCGAC	TTTCTCTGAA	9900
ATATGGTATG	ATAAAGGATA	TACAAGGAGA	TAAAATGAAT	AATAATTTAC	TGGTATTACA	9960
ATCAGACTTT	GGTCTGGTTG	ATGGTGCGGT	ATCGGCTATG	ATTGGAGTGG	CTTTAGAAGA	10020
GTCTCCAACC	TTAAAAATAC	ATCACTTGAC	GCACGATATC	ACGCCTTATA	ATATTTTTGA	10080
GGGGAGCTAT	CGTCTCTTTC	AGACGGTGGA	TTACTGGCCT	GAGGGAACGA	CGTTTGTATC	10140
GGTTGTCGAT	CCAGGTGTCG	GTTCGAAACG	TAAGAGTGTA	GTTGCCAAGA	CTGCAAAAAA	10200
TCAATACATT	GTCACGCCAG	ATAATGGGAC	GCTTTCCTTT	ATCAAGAAAC	ACGTTGGCAT	10260
TGTAGCCATT	CGTGAGATTT	CTGAGGTGGC	CAATAGGCGT	CAAAACACAG	AGCATTCTTA	10320
TACCTTCCAC	GGTCGTGATG	TCTATGCCTA	TACTGGTGCT	AAACTGGCCA	GTGGTCACAT	10380
TACTTTTGAG	GAAGTAGGGC	CAGAGCTCAG	TGTGGAACAG	ATTGTAGAGC	TTCCAGTCGT	10440

			552			
AGCGACCATC	ATAGAAGATC	ATCTGGTGAA	GGGAGCCATT	GATATTCTGG	ATGTGCGTTT	10500
CGGTTCGCTT	TGGACCTCTA	TCACACGGGA	AGAATTTTAC	AAGCTGGAAC	CAGAATTTGG	10560
TGATCGTTTT	GAAGTGACCA	TCTATCATGC	TGATATGCTG	GTCTATCAAA	ATCAGGTTGT	10620
CTATGGCAAA	TCATTTGCAG	ATGTGAGAAT	TGGGCAACCs	ATCTTTACrc	TCAGCaTCTt	10680
CGATTAGCTG	GGCAATTCGT	TCTAGTTGGA	TTTCGTCAAT	CAAGGT		10726

### (2) INFORMATION FOR SEQ ID NO: 67:

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 7163 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double
   (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 67:

TTATCTTTAA	CGATATCAAT	CAAGATCTGG	TCAATAAAGG	GATTGGGGCT	TATCGTGAAG	60
TTGGCATCCA	AGCCCATGGA	TATGTCTGTG	ACGTGACAGA	CGAGGACGGT	ATCCAAGCCA	120
TGGTCAAGCA	AATCGAACAA	GAGGTTGGTG	TCATTGACAT	CCTCGTTAAT	AACGCTGGTA	180
TTATCCGCCG	AGTTCCAATG	TGCGAAATGA	GCGCCGCTGA	TTTCCGTAAG	GTCATCGATA	240
TTGACTTAAA	CGCACCATTT	ATCGTTTCAA	AGGCAGTTAT	TCCTTCTATG	ATAAAGAAAG	300
GGCATGGAAA	GATTATCAAT	ATTTGTTCGA	TGATGAGCGA	ACTGGGACGT	GAAACAGTTA	360
GCGCTTATGC	TGCTGCTAAA	GGGGCTTGA	AAATGTTGAC	CCGCAACATT	GCGTCTGAAT	420
ACGGTGGAGC	CAATATCCAA	TGTAACGGAA	TTGGACCGGG	TTATATTGCC	ACTCCTCAAA	480
CAGCACCTCT	TCGTGAATTG	CAAGAAGATG	GTTCTCGCCA	CCCATTTGAC	CAGTTCATCA	540
TTGCAAAAAC	ACCTGCTGCA	CGTTGGGGAA	ATACTGAAGA	TTTGATGGGC	CCTGCTGTCT	600
TTCTCGCTAG	TGATGCCAGC	AATTTTGTCA	ATGGCCACAT	CCTATATGTA	GATGGCGGTA	660
TCTTAGCCTA	CATCGGAAAA	CAACCTGAGT	AAAAATAGAA	AGAAGATCTT	ATGAAAATCG	720
CATTAATCAA	TGAAAATAGT	CAAGCTAGCA	AGAATCACAT	TATTTACGAT	AGTCTAAAAG	780
AAGCGACAGA	TAAAAAAGGC	TACCAATTAT	TTAACTATGG	TATGCGTGGA	GAAGAAGGAG	840
AAAGTCAATT	AACTTATGTG	CAGAACGGAC	TAATGGCTGC	CATCCTTTTA	AATACAAAGG	900
CAGTTGACTT	TGTTGTTACC	GGCTGTGGTA	CGGGTGTAGG	GGCTATGCTT	GCTTTAAACA	960
GCTTCCCTGG	TGTTGTCTGT	GGTCTAGCAG	TGGACCCAAÇ	TGACGCTTAC	CTTTATTCTC	1020
AAATCAATGG	TGGTAACGCC	TTGTCTATCC	CTTATGCCAA	AGGATTTGGC	TGGGGGGCAG	1080
AACTGACCCT	CAAATTGATG	TTTGAACGCT	TATTTGCTGA	AGAAATGGGC	GGTGGCTACC	1140

CAAGAGAACG	TGTAATCCCT	GAACAACGCA	ACGCTCGTAT	CTTAAACGAG	GTGAAACAAA	1200
TCACCCACAA	TGATTTGATG	ACCATCCTTA	AAATAATCGA	CCAAGACTTC	CTCAAAGACA	1260
CCATCTCTGG	CAAATACTTC	CAAGAATACT	TCTTTGAAAA	CTGCCAAGÀT	GATGAAGTTG	1320
CTGCTTATTT	GAAAGAAGTA	TTAGCCAAGT	AAAGCTATTC	TAAACCAGAA	AGGAACTAAT	1380
GGATGACGAA	AATATTACTG	TTTGGCGAAC	CATTAATTCG	AATTTCACCA	TTAGATGCCA	1440
CCAGTATCGG	CGATCATGTT	GCCAGTTCGA	CTTATTTTGG	CGGATCAGAA	ATTAACATCG	1500
CTTGTAATTT	GCAAGCCCTG	GGTATCTCAA	CGAAAGTTTT	TACCGCACTC	CCTGCCAACG	1560
AGATTGGAGA	TCGTTTTCTC	ACATTCTTGA	AACAGCACCA	AATCGATACC	AGTTCAATCT	1620
GTCGGCTTGG	CGATCGAATC	GGCCTCTACT	ATTTGGAGAA	CGGCTTTGGT	TGTCGTCAAA	1680
GTGAAGTTTT	CTACGATCGT	AAGCATACGA	GTATCAGCCA	GATTCGGCCA	AACATGCTAG	1740
ATATGGATTC	TCTCTTTCAG	GGGATTAGCC	ATTTTCATTT	TAGTGGAATC	ACCGTAGCTA	1800
rcggtcaaga	GGTCCGTGCG	ATCCTTCTCC	TACTCTTGGA	AGAAGCCAAG	CGCCGAGGAA	1860
PTGTCGTTTC	AATGGATCTC	AATCTGAGAA	CAAAGATGAT	TTCAGTCCTA	GAAGCCAAGT	1920
ATGAATTTTC	TAAGTTTGCA	CGTTTTACTG	ACTATTGCTT	CGGTATTGAT	CCTCTCATGA	1980
PTGATGACCA	AAATCTAGAG	ATGTTTCCAA	GAGACAGTGC	TAGCCTAGAA	GAGGTGGAAA	2040
ATCGCATGCG	ACTTTTAAAA	GAAGCCTATG	GTTTCAAGGC	CATTTTCCAT	ACCCTCCGCT	2100
CTAGTGATGA	GCAAGACAAA	AATGTCTATC	AAGCCTATGC	TCTAGAAGAA	CTATTTGAAG	2160
AGTCTGTCCA	ACTAAAAACT	GCAGTCTATC	AACGAATTGG	TAGCGGGGAT	GCCTTTATAT	2220
CTGGTGCCCT	TTACCAACTA	CTCCATCATT	CCTCCCTAAA	AACTACCATT	GACTTTGCAG	2280
TGCGAGCGC	AACTCTCAAA	TGCACTCTTC	CAGGAGACCA	TCTCTCCACT	TCCTCAACTA	2340
TATTGAAAA	TTTACTGGCA	AATGCACAAG	ATATCATTCG	TTAGGAGAAT	TACATGACCA	2400
AATCAGATAC	GATTATTGAA	СТАААААААС	AAAAATTGT	CGCTGTTATT	CGAGGAAATA	2460
CAAAGGAAGA	AGGACTACAA	GCCTCGATTG	CTTGTATCAA	GGGCGGTATC	AAAGCTATTG	2520
AATCGCCTA	TACCAATCAG	TATGCAGGAC	AAATCATCAA	GGAACTTGTA	GACTTGTATC	2580
AGGACGATCA	GAGTGTTTGT	ATCGGTGCAG	GTACTGTGCT	TGATGCCGTA	ACTGCTAGAG	2640
ATGCCATTCT	AGCTGGAGCA	AATTACGTTG	TTTCTCCATC	TTTCCATGCT	GAAACTGCGA	2700
AATGTGCAA	TCTCTACAGC	ACACCGTACA	TTCCAGGCTG	TATTACCCTC	ACAGAGATCA	2760
GACTGCACT	TGAAGCCGGT	AGTGAAATCA	TCAAACTCTT	CCCAGGTAGT	ACTCTCAGTC	2820
CAGCATATAT	CTCTGCAGTC	AAGGCACCGA	TCCCACAAGT	TTCCGTAATG	GTAACCGGAG	2880

			224			
GAGTCGGCCT	AAACAACATC	CCTCAATGGT	TCGCTGCTGG	TGCAGATGCC	GTTGGAATTG	2940
GTGGCGAACT	СААТАААСТС	GCTTCCCAAG	GCAACTTTGA	CCGCATCAGC	GAGATTGCCC	3000
AACAGTATAT	TACACTCAGA	TAAAATCATA	ACTACCCGTC	TAACGGGTGG	TTTATCTCAG	3060
AGCTATAAGC	CCAAATCATC	AGCCAGCGCC	TAAAGACGCT	GGCTTTCACG	TTGTTCAAGC	3120
CTTATTGCTC	TTGACTCGTC	ACTTGCCTCT	TTAAGAGACT	TTGGTATTAC	TTACCACTAT	3180
CCCTAAAGGG	ATCCTCATAT	TCTTTTACAC	TCAATTTATC	TAGTGCTATA	GTAGATTGAA	3240
ACTGGAATAG	TACACCTCTG	CTTCTAAAAC	ATTGTTAAAA	ATCGATTTGA	CTGTCCTGAT	3300
CGATTTTGTC	CTGTTCTTAT	TTCATTTTAC	TATATATCAT	ACTTTACTCG	TTCTCAAATT	3360
TTCATACTCA	TGAAGAAATC	ATCCACTCGA	TAATTTCTTT	AATCTTGACT	ATATTTCTTA	3420
ATTGTGGCTT	CATTAAGCCC	TACTGGACTT	ACATAATAAC	CTTCCTCCCA	GAAATGCCGA	3480
TTCCCAAACT	TGTACTTGAG	ATTGGCGTGT	TTGTCAAACA	TCATGAGTGC	ACTTTTGCCT	3540
TTTAAATACC	CCATAAAACT	TGAAACACTT	AGCCTCGACG	GAATACTGAC	TAACATGTGT	3600
ACATGGTCTG	GCATTAAGTG	ACCCTCGATC	ATTTCAACAC	CTTTATAACT	ACACAAGCGA	3660
TGAAATATTT	CGTCTAAACT	ACTTCTATAT	TGATTATAGA	TGACTTTTCG	TCTATACTTA	3720
GGGGTGAACA	CAATATGATA	GAACACCTCC	ACTTTGTGTA	TGATAAACTA	TGAGTCTTTT	3780
GTGCCATATT	TTTTCTCCTT	TCGCTTTACA	ATTGGATTGA	ACACCTTTAT	TGTATCGCGT	3840
TTGGAGTTTT	TTTGGTATAA	CCTTCGACGC	GCACCCGTAT	AGCGGGTGGT	TGTTTTGTCT	3900
CGCACCTCAC	GGAGCGAGAC	GGACTAATAT	AGTGGAGTGA	AATAGGATAC	GAACAAATTG	3960
ATTAGGAAAA	TCAAATGAAT	TTATAGAAAT	CTTTTAGCAG	TTATAACGTT	CTATTCTAGT	4020
TTCAAAACGC	TATAGTCACA	TAATAATGAA	GTAAAAAAGG	ATAAGTATCA	ACTTATCCTT	4080
TTTTAAAAGA	AAAATCCGAA	GATATTTGGC	CTTCTTCGGA	TTTTTTCTAT	TTTCCACAGT	4140
TTCATGTAAT	TCATCTAGAT	GATGAACAAA	TTAGTTGTTC	TTTCCTCTAC	GGAATAGATA	4200
AAATGCCCCA	AGTAGCAAGA	ACCCTAGACT	TGCCAAGATT	GACTGACCTT	CTCCTGTCTG	4260
AGGGAGATTC	TTTTGATCCG	AATGGTTCTT	TTCCTCTTCA	GATTTTTCCT	TTTCTTTTGA	4320
ATTCTGTACT	TGTGGCTGAG	CTGCTTGCTC	TAGCTTTTTA	AAGACTTCCT	GATCTGGAGC	4380
TGATTCCTGG	GTTTCAGGAT	TATAGTAGGC	AATCTTATAT	TCATCCCCTT	CTTTTCGAAT	4440
GGTATAGACT	CCACGTTTCA	AAACTTGGAA	TTGGTTGGAA	ATAGTAGAGA	CAGAATCATC	4500
ATATTTCACA	ATGCCCCAAA	CTCCTTGTTT	AGCATCATAA	ACAGACTGAA	GGGTTTCGTT	4560
ATTTTCGATG	AGGCTACTTT	CTAACTCTTT	TATCATTTGA	TTGAAGGTGG	CACGATCCAC	4620
GTTAGGAATG	AGCATATAGC	CATAAGAATC	TCTATTTTGC	TTATGAGCCT	GACTAATCGT	4680

AAGA	AATTCA	TTTTCAACTT	CCTTGTCTGA	CTGTCCTTCA	TTGATATCCT	TCCAGGCTCC	4740
СТТТ	TGCAAA	GCCTTACTCA	TACTGATTGA	ACTCTTCTTA	AAGAAAAAGT	AACCAATATT	4800
CTTT	TTCGAA	TCGAACGATT	CTAAAAAGAC	ACTTTGGGTT	TCAGGATAAT	CCTTTTCTTG	4860
TTCT	GTAAGG	GAGGCTTCTT	TATCATTGAC	ATAGACTTTA	TATGGATTAC	CTGATTCCAG	4920
TTTT	CTCTGG	TCAATTGTAG	TTGCAGCAGT	ATCTGTTGAA	GTGTTTTGGA	TATTGCTTCC	4980
<b>FAAA</b>	AAGGCG	ATCTTATCCT	TTAGCATAAA	CCAGCTCTTA	TGAGCAGTCA	ATGTTTGATT	5040
CCAG	TTGGTG	AAATCCATGG	TTGCTGTCGC	ATTGGCATCA	TCTAGTTTGC	TCGTTCCAAC	5100
GAAA	GCAGAC	GGTAAAACTT	TACCTGTATC	GCTATCCGCT	CTCTTAGCAT	CCGTCTCTGT	5160
rgta	CCAGGC	ATCTTATATG	GATTAACTGT	TGGCCAGTAG	CCATCGCTAT	AGTGACTCAA	5220
ATCG	CCATTG	TAAAGATAGA	ACATCCCATC	ACTCGTATAC	CAACCACGTT	TATTTTCCTT	5280
TTC.	ATGTGT	TCGTAATTCA	AGGTACGACT	GGAAAAGAGT	GACAAGCCAA	ATCCAAACCC	5340
rttc	TCTGCA	TTGTACATGG	CTGTTTTATC	CATCTTGTTA	AAGGCAGATA	GGTAACTTGG	5400
rctt	GGAACA	CTTGCGACTC	CTGCATCACT	TAACAAGGAT	TGCATCAAAC	TGATATCCTT	5460
ATAA	GTCTTC	AAATTCTTAA	AGACATCATA	ATAACTATCC	GATTGAACAA	TGGTCTTCAC	5520
AAGA	CTCTGC	AAACATTGTT	TGGTTTCTCC	TTCAGACATA	TCCGCTATTC	GGTGAATCCC	5580
CTT	AGTACT	TCTACTGCGG	CCACGTGCCC	CTCGCTATTT	GCACGACTGA	TCGAGCGTCC	5640
ACGA	CTCATA	TCCATCAACT	CTCCATTCAC	CAGCAAAGGA	GCAAACGATT	TATCAATCCA	5700
TGG:	TACATG	GTTTGCATTT	TATCTTTATC	GATTGGATTC	TTGGTCTTTT	GAATGACTGG	5760
CAAC	AGTTGA	GACAGGCCAT	CAATCAAAAC	ATTCCCATAA	GCACCCGTAT	AGGCAACATT	5820
GTG:	rggtcg	ATATAGGATC	CATCTTGATA	AAAACCTTCA	CCTTGGTCTA	CCAACTTGAA	, 5880
CACT	rgctca	ATCGAGCGAA	TGGTAGAAGA	AATTTCTTGA	TCATCCTTAC	GCAGTAAACC	5940
AGCT/	ATTACT	TTTACCCTTC	CCATATCAAC	TAAGTTTCCA	CCTAGAGCCT	TGAATGGGTT	6000
TCAC	STCGTC	TTTCGGAAAT	GTTCGGGATC	TGGTACAAAT	TTTTCAATCA	CATCTGTATA	6060
TTT	TTAATT	TCCTCATCAG	AGAAGTATTC	TTTCATCAGA	GACAAGGTAT	TGTTGATGGC	6120
CGA	GTGTA	CCGATTTCAT	AATCCCACCA	GTTCCCAACA	ATGCTCTTTT	CACTATTGTA	6180
ACAT	rgttta	TGCATCCATT	CCATGGAATC	CCTGACTGTT	CGAACGACAG	TTTCATCTTG	6240
TAAT	PAACGA	GAAGAAGGAT	TGGTCACTTG	CTTGGCCATC	TCCTCCAATT	TCCGATAAGT	6300
GCAC	STCAGA	TTTGCAGACG	ТТТААТАТТТ	TGAAAATTTT	TCCCACAAAT	AGGTGCGGTC	6360
:GCC1	GACTT	GAAATACTGG	ATAGGCTATC	AGCTACCTTT	CCTTCCAATT	CCTGGTTTAA	6420

			556						
TTTGGCCATC	TGTTCATTTT	TAGAATCATA	GTATTGATTC	CCAGCGATGA	TGCCATTCCA	6480			
GTCATCCAAA	CGGTCTGTGT	ATGCATCCTT	AACAGAGGCC	AGAATCTTCA	AAGGAATCTT	6540			
TTTCACTTCC	TTGCCATCTT	TACTGACAAT	GACATTGGTT	GTCCCTTCCT	TAAGAGGTTC	6600			
TAAAATTCCA	TTTTTGACTG	AAGCAACGTC	AGGATTTTCT	ACCTTATAAG	TATAGTCCGC	6660			
AAGAGAAAAA	ACATGTTTTT	TTCCAATTGG	TAAATCAATC	ТТТТССТСАА	GCTGTTTATC	6720			
TGTTTGAGAA	TCCTCAGAAA	GCTGGTCTGC	TACCTCTACC	AGCTCAATAT	CCTTAAAGGA .	6780			
AACAGTCCCA	GTTCCTGTTT	CATAGAATAA	CTCCAGCTTG	АТТТТАТСАА	CATCTAAAGT	6840			
CGGGCTATAG	TCTGCTTCAA	TGGTCTGCCA	GTCCTTTGTT	CCTGACGTCG	TTGCAGAATT	6900			
CCACAATCGC	TTGTCCTTAC	CACTTTCCTC	AATGATACGA	ACTTTGGCAA	TCCCGATTTT	6960			
ATTATCTGTT	TTAATCTTGA	AACGCAGTTT	ATACTTTTTC	TTAGCTTCAA	TAGGAACCAT	7020			
ACGGTGAAGC	GCTGCCCTTA	ATTTCTCATG	GCTTGAGATA	GTGATAGCCC	CATCCTTAGC	7080			
CTCAATGACT	CGAGTTGAGG	CATCTGCACT	ATTCTTCTGG	TCTACCCAAG	CTGACCACCC	7140			
CCTGAGCTTT	GCTTCCTGTC	CGG			٠	7163			
(2) INFORMA	ATION FOR SE	EQ ID NO: 68	В:						
,	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 9244 base pairs								

(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 68:

CGTTATAACA	TACATGTAAG	CGGTACCCAA	AATGGTGCCA	AGTCAAAATT	TTTAAGGAGG	60
AAAATACATG	TCTTCACATC	CAATTCAGGT	CTTCTCAGAA	ATTGGGAAAC	TGAAAAAAGT	120
TATGTTGCAC	CGTCCAGGCA	AGGAGTTAGA	AAACTTGTTG	CCGGACTATC	TTGAAAGGCT	180
TCTTTTTGAT	GATATTCCTT	TCTTGGAAGA	TGCTCAAAAA	GAACATGATG	CATTTGCCCA	240
AGCTCTTCGC	GATGAAGGAA	TTGAGGTTCT	CTACCTAGAA	CAACTCGCTG	CTGAATCATT	300
GACCTCTCCA	GAAATCCGCG	ATCAATTTAT	CGAGGAATAC	TTAGACGAAG	CCAACATCCG	360
TGATCGTCAA	ACCAAGGTTG	CTATTCGTGA	ATTGCTTCAC	GGCATCAAGG	ACAACCAAGA	420
attggttgaa	AAAACAATGG	CTGGGATTCA	AAAAGTTGAA	TTGCCAGAAA	TTCCTGACGA	480
AGCTAAAGAT	CTAACTGACT	TAGTTGAATC	AGAGTATCCA	TTTGCAATTG	ACCCGATGCC	540
AAACCTCTAT	TTCACTCGCG	ACCCATTTGC	AACAATTGGA	AACGCCGTAT	CGCTTAACCA	600
CATGTTTGCA	GACACTCGTA	ACCGTGAAAC	ACTCTACGGT	AAGTATATCT	TCAAATACCA	660

CCCAATCTAT	GGCGGAAAAG	TGGATTTGGT	CTACAACCGT	GAAGAAGATA	CGCGTATCGA	720
AGGTGGAGAC	GAGTTAGTTC	TTTCTAAAGA	CGTCCTTGCA	GTAGGTATCT	CTCAACGTAC	780
AGACGCAGCT	TCTATCGAAA	AACTTTTGGT	CAACATCTTC	AAGAAAAATG	TTGGCTTCAA	840
GAAAGTTTTG	GCCTTTGAAT	TTGCTAACAA	CCGTAAATTC	ATGCACTTGG	ATACTGTCTT	900
CACTATGGTA	GACTATGACA	AGTTCACTAT	TCACCCAGAA	ATCGAAGGCG	ACCTTCACGT	960
TTACTCAGTT	ACTTACGAAA	ACGAAAAACT	TAAAATCGTT	GAAGAGAAAG	GTGACTTAGC	1020
TGAACTTCTT	GCTCAAAACC	TTGGTGTAGA	AAAAGTTCAT	TTGATTCGTT	GCGGTGGTGG	1080
CAATATCGTA	GCAGCTGCGC	GTGAACAATG	GAACGACGGT	TCTAACACTT	TGACCATCGC	1140
ACCTGGTGTG	GTAGTTGTTT	ATGACCGCAA	TACCGTGACC	AATAAGATTT	TGGAAGAATA	1200
CGGGCTTCGC	TTGATTAAGA	TTCGCGGAAG	TGAATTGGTT	CGGGGCCGTG	GTGGACCTCG	1260
TTGTATGTCT	ATGCCATTTG	AACGTGAAGA	AGTGTAATCG	CTGTTCGATA	TTCGTCAATA	1320
GAAAATGTAA	AAAATAGAAA	GAGGAAATAA	TAAAATGACA	AATTCAGTAT	TCCAAGGACG	1380
CAGCTTCTTA	GCAGAAAAAG	ACTTTACCCG	TGCAGAGTTA	GAATACCTTA	TTGGTCTTTC	1440
AGCTCACTTG	AAAGATTTGA	AAAAACGCAA	TATTCAACAC	CACTACCTTG	CTGGCAAGAA	1500
TATCGCTCTC	CTATTTGAAA	AAACATCTAC	TCGTACTCGT	GCAGCCTTTA	CAACTGCGGC	1560
TATCGACCTT	GGTGCTCACC	CAGAATACCT	CGGAGCAAAT	GATATTCAGT	TGGGTAAAAA	1620
AGAATCTACT	GAAGATACTG	CTAAAGTATT	GGGACGTATG	TTTGACGGGA	TTGAATTCCG	1680
CGGATTCAGC	CAACGTATGG	TTGAAGAATT	GGCAGAATTC	TCAGGCGTTC	CAGTATGGAA	1740
CGGTCTAACT	GACGAATGGC	ACCCAACTCA	AATGCTCGCT	GACTACTTGA	CTGTTCAAGA	1800
AAACTTCGGT	CGCTTGGAAG	GCTTGACATT	GGTATACTGT	GGTGATGGAC	GTAACAACGT	1860
TGCCAACAGC	TTGCTCGTAA	CAGGTGCTAT	CCTTGGTGTC	AATGTTCACA	TCTTCTCACC	1920
AAAAGAACTC	TTCCCAGAAA	AAGAAATCGT	TGAATTGGCA	GAAGGATTTG	CTAAAGAAAG	1980
TGGCGCACAT	GTTCTCATCA	CTGAAGATGC	TGATGAAGCA	GTTAAAGATG	CAGACGTTCT	2040
TTACACAGAC	GTTTGGGTAT	CAATGGGTGA	AGAAGACAAA	TTCGCAGAAC	GTGTAGCTCT	2100
TCTTAAACCT	TACCAAGTCA	ATATGGACTT	AGTTAAAAAA	GCAGGCAATG	AAAACTTGAT	2160
CTTCCTACAC	TGCTTGCCAG	CATTCCACGA	TACTCACACT	GTTTATGGTA	AAGACGTTGC	2220
TGAAAAATTT	GGTGTAGAAG	AAATGGAAGT	AACAGACGAA	GTCTTCCGCA	GCAAGTACGC	2280
TCGCCACTTC	GATCAAGCAG	AAAACCGTAT	GCACACTATC	AAAGCTGTTA	TGGCTGCTAC	2340
ACTTGGTAAC	CTTTATATTC	CTAAAGTATA	ATTTTAGATA	ATAAACCGTC	TACCAACAGC	2400

			558			
TATGAGGGCT	GCGACTAATA	GCTTTAGTCC	GGTCCTCTTT	TATGTAATGG	TAATCTATTA	2460
тттсттатаа	AATATGTGAA	AAATCATTAA	ATTGAAATCT	AAACGCATTC	TATTGAGTGT	2520
GATAAAGGAG	AATTTATGGC	AAATCGTAAA	ATTGTAGTAG	CTTTGGGAGG	AAATGCGATT	2580
CTTTCTTCTG	ACCCATCAGC	AAAGGCTCAA	CAAGAAGCTT	TAGTTGAAAC	AGCTAAGCAT	2640
CTTGTAAAAT	TGATTAAAAA	TGGAGATGAT	CTGATTATCA	CTCACGGTAA	TGGACCTCAA	2700
GTTGGGAATC	TCTTGCTCCA	ACATTTGGCA	TCAGACTCTG	AAAAGAACCC	TGCCTTCCCA	2760
CTCGACTCAC	TTGTCGCTAT	GACAGAAGGT	AGCATCGGTT	TCTGGTTGAA	AAATGCTTTG	2820
CAAAATGCTC	TCTTGGATGA	AGGCATCGAA	AAAAATGTTG	CCTCTGTTGT	AACGCAAGTT	2880
GTCGTAGATA	AAAATGATCC	AGCTTTTGTT	AACTTGAGTA	AACCAATCGG	TCCTTTCTAT	2940
TCAGAAGAAG	AAGCAAAAGC	AGAAGCCGAA	AAAAGCGGAG	CGACTTTCAA	GGAAGATGCT	3000
GGCCGTGGCT	GGCGTAAGGT	CGTTGCCTCA	CCAAAACCTG	TTGACATCAA	AGAAATTGAA	3060
ACCATCCGTA	CTCTTTTAAA	TAATGGTCAA	GTCGTCGTAG	CTGCAGGTGG	TGGCGGTATT	3120
CCCGTCGTCA	AAGAAAACAA	TGGACATTTG	ACTGGTGTCG	AAGCGGTTAT	TGATAAAGAC	3180
TTCGCTTCCC	AACGTTTGGC	AGAATTGGTT	GATGCAGACC	TCTTCATCGT	TTTGACAGGT	3240
GTAGATTATG	TATTTGTTAA	CTACAACAAG	CCAAACCAGG	AAAAATTGGA	ACATGTGAAT	3300
GTTGCCCAGC	TGGAAGAATA	TATCAAACAA	GATCAGTTTG	CACCAGGTAG	CATGCTTCCA	3360
AAAGTAGAAG	CAGCTATCGC	TTTTGTCAAT	GGTCGTCCAG	AAGGAAAAGC	AGTTATTACT	3420
TCCCTTGAAA	ATCTAGGCGC	CTTGATTGAA	TCTGAAAGCG	GAACAATTAT	TGAAAAAGGA	3480
TAAGTTGTTT	TACTAATAAG	ATGTATTCTA	TTTCTAGTAT	CTTTATATCA	AATTAGAAAT	3540
TATTCTTGAA	AACATGTACA	ATATTTCAAA	AGATACTAGT	TTTAGACTTT	aatatggtaa	3600
AACAAATATA	AATAGAAAGC	GTTTTCTTGA	ATGTTTATTT	aagaaagtag	TTGGTTTTTT	3660
ACACTTTGTT	AGACATCAGG	AGGAAAAACA	AATGAGTGAA	AAAGCTAAAA	AAGGGTTTAA	3720
GATGCCTTCA	TCTTACACCG	TATTATTGAT	AATCATTGCT	ATTATGGCAG	TGCTAACTTG	3780
GTTTATCCCT	GCGGGGGCCT	TTATAGAAGG	TATTTACGAG	ACTCAGCCTC	AAAATCCACA	3840
AGGGATTTGG	GATGTCCTCA	TGGCACCGAT	TCGGGCTATG	CTAGGTACTC	ATCCAGAGGA	3900
AGGTTCGCTC	ATTAAAGAAA	CGAGCGCAGC	GATTGATGTA	GCCTTCTTCA	TCCTTATGGT	3960
TGGTGGTTTC	CTTGGCATTG	TCAACAAAAC	TGGTGCTCTT	GACGTAGGGA	TTGCCTCTAT	4020
CGTGAAGAAG	TATAAGGCC	GCGAAAAAAT	GTTAATTTTG	GTACTGATGC	CTTTGTTTGC	4080
CCTCGGTGGT	ACAACTTATG	GTATGGGTGA	AGAAACAATG	GCCTTCTATC	CACTCCTTGT	4140
GCCAGTTATG	ATGGCCGTTG	GTTTTGATAG	CCTGACTGGT	GTTGCAATTA	TTTTGCTCGG	4200

TTCTCAAATC	GGCTGTTTGG	CATCTACTCT	GAATCCATTT	GCGACAGGTA	TTGCTTCAGC	4260
GACTGCGGGA	GTTGGTACAG	GGGACGGTAT	CGTACTTCGT	CTGATCTTCT	GGGTTACCTT	4320
GACTGCTCTT	AGTACTTGGT	TTGTTTACCG	TTATGCGGAT	AAGATTCAAA	AAGATCCGAC	4380
TAAGTCACTG	GTTTATAGTA	CTCGCAAAGA	AGATTTGAAA	CACTTTAACG	TAGAAGAATC	4440
TTCATCTGTA	GAATCTACAC	TTAGCAGCAA	ACAAAAATCA	GTTCTCTTCT	TATTTGTGTT	4500
GACATTCATC	TTGATGGTAT	TGAGCTTCAT	TCCATGGACA	GACCTTGGCG	TTACCATTTT	4560
TGATGACTTT	AATACTTGGT	TGACTGGTCT	TCCAGTTATT	GGTAATATTG	TCGGTTCATC	4620
TACTTCTGCA	CTAGGTACTT	GGTACTTCCC	AGAAGGCGCA	ATGCTCTTTG	CCTTTATGGG	4680
TATCCTGATT	GGTGTTATTT	ATGGTCTTAA	ÄGAAGATAAG	ATTATCTCTT	CCTTCATGAA	4740
TGGTGCTGCT	GACTTGCTCA	GTGTTGCCTT	GATCGTAGCG	ATTGCTCGTG	GTATTCAAGT	4800
TATCATGAAC	GACGGTATGA	TTACCGATAC	AATCCTCAAC	TGGGGTAAAG	AAGGCTTGAG	4860
CGGTCTATCT	TCACAAGTCT	TTATCGTTGT	AACTTATATC	TTCTATCTAC	CTATGTCATT	4920
CTTGATCCCA	TCTTCATCTG	GTCTTGCCAG	CGCAACTATG	GGTATCATGG	CTCCACTTGG	4980
AGAATTTGTA	AATGTCCGTC	CTAGCTTGAT	TATCACTGCT	TACCAATCTG	CTTCAGGTGT	5040
CTTGAACTTG	ATTGCACCAA	CATCTGGTAT	TGTGATGGGA	GCTCTTGCAC	TTGGACGTAT	5100
CAACATTGGT	ACTTGGTGGA	AATTCATGGG	CAAACTCGTA	GTCGCTATTA	TTGTAGTGAC	5160
CATCGCCCTT	CTTCTCCTTG	GAACCTTCCT	TCCATTCCTA	TAAAATAGTG	AGTGAGGTGA	5220
TTCCATGAAA	ATAGATATAA	CAAATCAAGT	TAAAGATGAA	TTTCTTATAT	САТТАААААС	5280
CTTGATTTCC	TATCCTTCAG	TACTCAATGA	AGGAGAAAAT	GGAACACCTT	TTGGACAAGC	5340
AATCCAAGAT	GTCCTAGAAA	AAACTTTAGA	GATTTGTCGA	GACATAGGTT	TCACTACCTA	5400
TCTTGACCCT	AAAGGTTATT	ACGGATATGC	AGAAATCGGT	CAGGGAGCAG	AGCTTCTGGC	5460
CATTCTCTGT	CATTTGGATG	TTGTTCCATC	AGGTGATGAA	GCAGATTGGC	AGACACCGCC	5520
ATTTGAAGCA	ACTATCAAAG	ACGGCTGGGT	ATTCGGACGT	GGTGTCCAAG	ATGATAAAGG	5580
CCCTTCGCTC	GCAGCTCTCT	ATGCAGTAAA	AAGCTTGCTG	GACCAAGGTA	TTCAGTTCAA	5640
AAAGCGCGTA	CGCTTTATCT	TTGGTACCGA	TGAGGAAACC	CTCTGGCGCT	GCATGGCACG	5700
CTACAATACC	ATCGAAGAAC	AGGCCAGTAT	GGGCTTTGCA	CCTGACTCAT	CTTTTCCTCT	5760
GACCTATGCT	GAAAAAGGGC	TTCTACAGGT	CAAACTTCAT	GGCCCTGGAT	CGGATCAACT	5820
AGAGCTTGAA	GTAGGAGGCG	CCTTTAACGT	TGTACCAGAC	AAGGCCAACT	ACCAAGGTCT	5880
ССТСТАТСЪЪ	CAGGTTTGTA	ACCOTOTOAA	АСААССТССТ	<b>ТАТСАТТАСС</b>	AAACCACTGA	5940

			560			
ACAAACCGTA	ACGGTTCTCG	GAGTGCCAAA	GCATGCTAAG	GATGCTAGTC	AAGGTATCAA	6000
TGCTGTCATC	CGACTAGCTA	CCATTCTTGC	TCCTCTCCAA	GAACACCCTG	CTCTCAGTTT	6060
TCTTGCAACA	CAAGCAGGTC	AAGACGGCAC	AGGAAGACAA	ATCTTTGGTG	ATATAGCAGA	6120
TGAACCTTCT	GGTCACCTAT	CCTTTAATGT	CGCAGGTCTC	ATGATCAATC	ATGAACGTTC	6180
TGAAATCCGT	ATTGACATTC	GGACTCCTGT	CTTAGCTGAC	AAGGAAGAAC	TAGTAGAGTT	6240
GCTTACAAGA	TGTGCACAAA	ACTACCAACT	CCGCTACGAA	GAGTTTGACT	ATCTAGCGCC	6300
TCTATACGTC	GCAGAAGACA	GTAAACTCGT	TAGCACACTG	ATGCAAATCT	ACCAAGAAAA	6360
GACTGGCGAT	AACAGTCCTG	CTATTTCATC	CGGTGGTGCC	ACTTTTGCTC	GCACCATGCC	6420
AAATTGTGTA	GCCTTCGGCG	CCTTATTCCC	AGGAGCGAAG	CAGACAGAAC	ATCAGGCAAA	6480
TGAATGTGCC	GTTCTAGAAG	ATTTGTACCG	TGCTATGGAT	ATTTATGCCG	AAGCCGTCTA	6540
TCGACTTGCA	ACTTAATCAG	GCAACTGTTT	CTACCAAAAA	AAATCGACCG	ATTAATGAAC	6600
TGCACCCCAA	AAGTTAGACA	GAATAAATCT	AACTTTTGGG	GTGTTTTATT	ATGAAATTGA	6660
GTTATGAAGA	TAAAGTTCAG	ATCTATGAAC	TAAGAAAGCA	AGGACAAAGC	TTCAAACAGC	6720
TTTCAAAAAG	ATTTGGTGTG	GATGTTTCTG	GTCTAAAGTC	ATCTGAATCT	TTGAGATGAG	6780
СТТТАТАААТ	CGCTTTTTTC	AGTTTTTGCA	CTGGTGTTTC	GATAAACTCA	AACTTTTTAG	6840
CCGTGGTATT	GCCTGATTTT	ATAGTATATT	GAAACTAGAA	TAGTACACCT	CTCCTTCTAA	6900
AACATTTTTA	GAAATCGATT	TGACTGTCCT	GATCGATTTG	TCCTGTTCTT	ATTTCATTTT	6960
ACTATATTTG	AGCCACTTCG	TCTTTAACGG	CTTTATTCAT	AAGCTCTTGT	AATTTTTCTT	7020
TACTATCAAT	TACTTCTGAT	TTTCCGTTGT	AATTTATTGT	AATAGGTTTT	AACTTACCTA	7080
ATTTCTCGAC	ACGCTCATTA	ATTTGATCTT	TTTTGAAGGC	TGCTTATGTT	TTTCCTAAGA	7140
TTTTTTCAAA	AATATATTTA	TCAGATAGCG	GTTTGTCTTC	TTCTTCAGCT	TGGTTTTTGT	7200
attaatttga	AACATAAGGA	ACAAATCCTT	CATAGTAACC	TAATGCTCCC	ATAAGTTCAA	7260
AAGCTTGTTT	TCTAATTCAA	ACCATTGCAA	CTCAGATTTC	AGCTTTTCAG	ATAAATCCTG	7320
CTCATCCAAA	TAATGACTTG	AAATTAGTGC	TGAACTCGTT	TCTGTATCCT	GTACAGGCTG	7380
AGCACCCATA	CCAGCAAAAA	ATAAACTCGT	TCCTAGCAAG	ACCGAACAAG	CTCCTATTGC	7440
ATATGGCCTC	AAAGAAAAAC	GCTGCTTTCT	CTCAAATTGA	AATTCTTTCA	TCCCATCTCC	7500
CATCATTCAT	TATTACTGTA	TATTTTGTAT	ATCAGAAATA	GTTTGTATTC	ACAAATCTTT	7560
CTAGTTATTC	CCTTATCATT	CCTAATTAAG	GGAGATAACA	TACAATAATT	TTTAGTTAAA	7620
TGTATATCGA	TGTTTTTTGT	TTTTCTTAAT	AAACGCAATA	CAAAAAGAGC	CTGTTACCAA	7680
GCTCTTTGTA	CTCAATGAAA	ATCAAAGAGC	AAATTAGGAA	ACTAGCCACA	GGTTGCTCAA	7740

AACACCGTTT	TGAGGTTGCA	GATAGAACTG	ACGAAGTCAG	CTCAAAACAC	TGTTTTGAGG	7800
TTGCAGATAG	AACTGACGAA	GTCAGTAACA	TCTATACGGC	AAGGCGACGC	TGACGTGGTT	7860
TGAAGAGATT	TTCGAAGAGT	ATTAGTCTAT	TATTTCTTCT	CAGCGCGAAG	GGCTGACAAG	7920
ATTTGTGTTC	GGATATCATC	CACACCATTT	GGAGTATTTG	GTAAAAAGAT	AGTTTGATTT	7980
CCTTTAGAGG	CAAAGGTATT	CAAGGTATCC	AAATACTGGT	TGGTCAAGAG	GATAGACATG	8040
ATTTGTTCTT	CTGTCATGCC	AACATTGGCT	TCCTTGAGTT	CGGTGATAGA	CTCTGCCAAT	8100
CCATCCACAA	TCGCCTTACG	TTGTTGGGCA	ATCCCCACAC	CATGAAGGCG	GTCTTTTTCT	8160
CTTCTGCTT	CAGCTGCAGT	GACAATTTTA	ATCTTGTCAG	CTTCCGCCAA	TTCTTGTGCT	8220
GCGACCCGCT	TACGTTGCGC	CGCATTGATT	TCATTCATGG	ATTGCTTAAC	TTCTGCATCT	8280
GGTTCGACCT	TGGTAATCAA	GGTTTTCACG	ATAATGTAGC	CGTAAGTGGT	CATTTCTTCT	8340
GCTACTTGGT	GTTGAACTTC	AAGGGCAATC	TCATCTTTTT	TCTCAAACAA	TTCATCCAAG	8400
GTTAATTTTG	GAACAGAAGA	GCGAAGAGCA	TCTTCGATAT	AAGATTTAAT	CTGAGATTCT	8460
GGACGTATGA	GTTTATAGTA	AGCATCTGTC	ACGCTCTGCT	CGTTGACACG	GTACTGAGTC	8520
GCTACATTCA	TCATAACGAA	CACATTGTCC	TTGGTCTTAG	TCTCAACCAC	AATATCACTT	8580
rgcaacaagc	GCAACTGAAT	CCGTGCTGCA	ATCGAGTCAA	TCCCAAAAGG	CAAGCGAATA	8640
rgaataccgc	TATTAGCAAC	CTTTTGGTAT	TTCCCAAAGC	GTTCAATAAT	CGCCACCGAC	8700
rgctgacgaa	CCACATAAAC	TGTACTCAGT	GTGACTATCA	CCAATAGGAG	CACACAAACA	8760
ATCAGAAAAA	TCATGAAAAA	TATTGCCATA	ATGGAACCTC	CACAAGTATT	TTTCTAGTAT	8820
PATAGCACAT	TTAAAGAAGG	CTGTGCCGTT	TTTACTGCGA	TTTTTCCTGA	AATGTCAATA	8880
ATTAGAGGTG	AATTGTCCTA	TTGTCGTCCA	ATCTCTTGCT	AAAATAACTC	TTTATAAAAG	8940
GCAATCGTTT	CTTCTAAGGT	TGGCATAAAT	GGATTTCCTG	GTGCGCAGGC	ATCAATCAAG	9000
CATTCTTAG	AAAGGTATTC	AAAGTCGAAA	TCTTTTTCTT	CAATACCAAG	TTCAGTCAGT	9060
TCTTAGGAA	TACCTACTGT	CTCAGAAAGC	TTCTCAATCT	CAGCAATCGC	ATAATCGGCA	9120
CATTCTTGAT	CTGATTTACC	TTCTACATGA	AGTCCCAAGG	CTTTGGCAAC	ATTGCGGAAA	9180
SCTTCTGGTA	CACGTTTAGC	ATTTTCACGT	TCTATAACTG	GTAGCAACAT	GGCACAGCAC	9240
ACGG		١				9244

# (2) INFORMATION FOR SEQ ID NO: 69:

- (i) SEQUENCE CHARACTERISTICS:
  (A) LENGTH: 8898 base pairs
  (B) TYPE: nucleic acid
  (C) STRANDEDNESS: double

562

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 69:

GATCTGAACT TTATCATCAT AACTTAATTT CATAATAAAA ACACCCCAAA AGTTAGATTT 60 TTTCTGTCTA ACTTTTGGGG TGTAGTTCAG TCATTGGACT GACGTTTTTT TGTATGCTTA 120 TTTTGATTTG ATGTAGTTGA TACCATCTGC TTTTGGTGCG ACTGCTTTTC CAAAGAAGGC 180 TGCTAAGACA AGAATTGTCA AAACATAAGG TGCAATTTGA AGATAAACCG CTGGCACTCC 240 TTGTAGGAAC GGCAATTGAG AACCGATAAC AGCCAAACTT TGTGAAAGTC CAAAGAAGAG 300 ACTAGAAAGC ATAGCACCGA TTGGATTCCA TTTCCCAAAG ATCATCGCAG CAAGGGCGAT 360 AAATCCAGGT CCAACAATAG TTGTCACTGA GAAGTTAACT GAGATTGATT GCGCATAAAT 420 CGCTCCGCCA ATTCCACCTA GAAAACCTGA AATAATAACC CCTAAATATC TCATCTTGTA 480 GACGTTGATT CCCAAGGTAT CCGCTGCTTG AGGATGTTCA CCGACAGAGC GGAGACGAAG 540 ACCAAATTGA GTCTTAAAGA GAATAAACCA AGCAAGGAAT GAGAAGGCAA TCGCCAGATA 600 ACCAAGTAGA CTAGTTGACT TGAAGAAGAT ATCACCAATC ACTGGGATAT TTGCCAAGAC 660 TGGGAAATCA AAGCGTCCAA AAGTTTGACT TAGGTTGTCG GTTTGTCCTT TGTTATAAAG 720 AACTTTAACT AAGAAAACAG CCAAGGCAGG CGCCATCAAG TTCAATACCG TACCGCTGAC 780 AACATGGTCT GCACGGAAAT GAACCGTCGC TGCTGCGTGG ATGATAGAGA AAACACTACC 840 AACCAATCCT GCTACAAGCA AGGATAGCCA TGGAGTTGCT GCTCCAAATT GTTCTGCAAA 900 TTCAAGGTTA AAGACAACTC CAGAAAAGGC ACCCATAACC ATAATTCCTT CAAGGCCAAC 960 GTTTACCACA CCACCACGTT CAGAGAAAAC ACCACCGATA CTTGTAAAGA TGAGAGGTGC 1020 TGAGTAAATC AGCATAGAAG ACACCAAGAG GGGGAGCAAG GTTATAATAG ACATCTTTAC 1080 TTACCTCCTT TAACTTGTTT TTTCGGTTTG ACAAAGCGTT CGATAAGGTA ATGAACACTG 1140 ACAAAGAAGA TAATAGACGC TGTTACAATG CTGACAAGCT CAGATGGTAC CTGCGCCGCA 1200 TTCATACCAG GAGCCCCAAC TTGGAGAACG CCAAATAGGA AGGCTGCAAA GAGTATACCA 1260 ATTGGTGAGT TGGCCGCAAG CAAACTAACC GCCATTCCGT TAAATCCGAT AGCTAATGAC 1320 GAACCTTGAA CATAGACGTT CTGGAAGGTT CCCAAACCTT CAACAGCTCC ACCAAGACCT 1380 GCCAAGGCAC CTGAAATAAT CATAGATAGG ATAATAGTCC GCTTGGCAGA AATACCAGCA 1440 TATTCTGAAG CATGTGGATT AAGACCAACT GCACGGATTT CAAAACCAAG AGTTGTTTTC 1500 TTGAGCATGA ACCAAATAAC TGCAACGCA ATGATGGCAA AGAAAATACC AATATTCATC 1560 CGTGAGTTAC CAGTCAACTC AGCCAACCAA GGTGTCTGAT AGGTTGCATT AGCCCCAACA 1620

CGAATGGTCG	AATCTGTACT	TTGCATGAAG	TCTTTAGGGA	AAGCATGGAT	AAAGGCATTC	1680
CCTACATACA	AGACAATGTA	GTTCATCATG	ATGGTTACAA	TAACCTCTGA	CGTCCCTAGA	1740
PAGGCCCTAA	GAATACCTGG	AATCGCTCCG	ACAATCCCAC	CAGCAATCAA	GGCAATCACG	1800
ATGGTTGCTA	GAATCATCAA	GGGACGGGGC	ATATCTGGAT	GCGACAGGGC	AAACCAACCA	1860
CTGAGAATCC	AACCTGCCAA	AGCCTGACCA	GGAAGTCCGA	CGTTAAAGAA	ACCAGCTCGA	1920
CTGGCAACGG	CAAAACCAAG	ACCAATCAAG	ACCAGAGGAC	CCATAGCACG	GAAGATTTCT	1980
CCAATCCCAC	GCAGACTGCC	AAAGGCTGTA	TAGAACAATT	CTTCGTAGCC	CCAAATAGCA	2040
PCATAACCGA	AGATCCACAT	GACAATGGCT	CCGAGTAAAA	TTCCTAGGAA	TACAGAAATC	2100
AAGGGAACCG	AAATTTGTTG	TAATTTTTA	GACATCACTC	TTCTCCTTTC	CCAAGTTTCC	2160
ACCAGCCATC	AAGACACCAA	GTTCTTGTTT	ATTGGTTGTT	TCTGGTGATA	CAATACCTTG	2220
<b>AATCTTACCA</b>	TCGTGGATAA	CGGCAATACG	GTCTGAGACG	TTTAAAATCT	CATCCAATTC	2280
AAAGCTGACA	ACAAGGACAG	CCTTGCCATT	ATCACGCTCT	TCAATCAAGC	GTTTGTGGAT	2340
ATACTCAATG	GCACCGACAT	CCAACCCACG	AGTTGGCTGG	CTAACGATAA	GGAGATCAGG	2400
ATCTCGATCA	ATTTCACGAG	CAATAATTGC	TTTTTGTTGA	TTTCCTCCTG	AGAGTGCAGC	2460
rgcaggaact	AATTCACTGG	CAGCGCGAAC	ATCAAACTCT	TCCATCAGCT	TTTTAGCATA	2520
AGAAGTAATA	TTTGAATAAT	TCAAAATTCC	ATTTTTACTA	TGTGGTTCTT	TATAGTAGGT	2580
rtgaagggca	ATATTTTCAG	ATATCATCAT	TTCCAAAATC	AAGCCATCAC	GGTGACGGTC	2640
PTCTGGAACG	TGCCCAACAC	TTAGTTCTGT	AATCTGACGT	GGGTGCAAGC	CTACAATTGA	2700
ATCTCCTTTT	AGCTCAATGC	TACCAGATTC	AACCTTACGA	AGACCTGTAA	TGGCTTGAAT	2760
CAGTTCAGAC	TGACCATTTC	CATCAATCCC	CGCAATACCA	ACAATCTCTC	CAGCACGAAC	2820
ATCCAAGGAC	AGATTTTTAA	CAGCTGGAAC	ACCACGGTTT	TCATTGACCA	CCAAATCTTT	2880
GATAGACAAA	ACCACTTCTT	TTGGTTTAGA	GGCTTGCTTC	TCTGTTTTAA	AGGAAACAGA	2940
ACGTCCTACC	ATCATTTCCG	CCAAATCAGC	ATTGGTAGCC	CCTGCAATTT	CAACGGTTTC	3000
\ATTGATTTC	CCACGACGGA	TAACTGTAAC	ACGGTCAGAA	ACTGCTCGAA	TTTCATCCAA	3060
TTTGTGGGTA	ATCAAGATAA	TTGATTTTCC	TTCTTTGACA	AGATTTTTCA	TAATAGCCAT'	3120
CAACTCATCA	ATTTCTGATG	GAGTCAAAAC	AGCCGTTGGT	TCGTCAAAGA	TAAGGATATC	3180
AGCCCCCGA	TAAAGTGTTT	TTAAAATTTC	TACACGTTGT	TGGGCTCCAA	CTGAGATATC	3240
rgctaccttg	GCAGAAGGGT	CAACAGCTAA	GCCATAACGT	TCAGAAAGAG	CCTTGATTTC	3300
TTGCTAGCT	CCAGCGATAT	CTAGCACACC	ATTTTTAGTC	AATTCACTAC	CTAAAATGAT	3360

			. 564			
GTTTTCAGCC	ACTGTGAAGG	CTTCAACCAA	CATAAAGTGC	TGGTGAACCA	TCCCGATTCC	3420
CAAGCTAGCT	GCTTTAGATG	GGGAGTCGAG	ATTGACAACT	TGACCGTTGA	CCGCGATTTC	3480
ACCACTAGTT	GGTTCAAGAA	GGCCTGCTAA	CATGTTCATT	AGCGTGGACT	TACCAGCCCC	3540
ATTTTCTCCT	AAAAGTGCAT	GAATTTCACC	TTTTCGTAGG	TGCAAGTTGA	TTTTGTCGTT	3600
GGCAACAAAT	CCACCAAACA	CCTTGGTAAT	ATCACGCATC	TCAATGACAT	TTTCGTGTGC	3660
CATGTGCTCT	TCCTTTCAGA	GTCTTATTTT	АТТТСААТАА	AACTTGCTAG	TTTGTCTAGT	3720
AGCAAGCTTT	ACTTAGACAA	AATGACTTTG	TCTCAACTCT	TAAAAAAGCG	GCCCTTGGCC	3780
GCTTCCTAAG	AAATGACTTC	CATCCATTAT	TTTTCAGGAA	CTTTTACGCT	TCCATCAAGG	3840
ATTTTAGCTT	TTGCATCTTC	GACAGCTTTT	TTACCTTCTT	CTGAAAGGTT	TGTTACTGCC	3900
AAGTCAACCC	CTTTATCCTT	CAATGAGTAA	ACGATCACTT	GACCGCCAGG	GAATTCTCCT	3960
CTTTCTGCCT	TGTTAGAAAT	ATCTTTTACA	GTTGTACCAA	CTTGTTTCAA	AGTAGATACA	4020
AGAACAAAGT	TTGATTCTTT	GCCATCTTTA	GAAGTGTATT	TACCTTCTGC	TTCTTGGTCA	4080
CGATCAACAC	CGATAACCCA	AACTTTTTCA	TTTTCAGGAC	GGCTTTCGTT	GAGAGATTTT	4140
GCCTCTGCAA	AGACACCTGC	ACCTGTACCA	CCAGCTACTT	GGTAAACAAT	ATCTGCACCG	4200
GCTGCGTATT	GTGCGGCTGC	AATTGTTTTA	CCTTTAGCCG	CATCACCAAA	TGAACCAGCG	4260
TAGTCAACTT	GGACTTTGAT	AGATGGGTCT	ACTGACGCAA	CACCAGCCTT	GAATCCTGCT	4320
TCAAAACGAG	AGATAACTTC	AGATTCGATA	CCACCTACAA	AACCAACTTG	TTTTGTCTTA	4380
GTTGTTTTTG	CTGCAGCCAC	ACCTGCAAGg	TAACCTGACT	CATTATCAGC	GAAAGTTACG	4440
CTCGCAACAT	TCTTTTGGTC	TTTAATCACA	TCATCAATCA	AGACATAGTT	CAAGTCAGTG	4500
TGTTCTTTTG	CTGCATCTTT	AACTGCATTA	TTAAGGGCAA	AACCAACACC	GAAGATTAGG	4560
TTGTAACTTC	CAGCCGCTTG	TTGCAAGTTG	TTAGCGTAGT	CAGCTTCACT	TGTTGATTGG	4620
<b>AAGTAAGTGA</b>	AACCGTTATC	TTTTGAAAGA	TTGTGTTCTT	TACCCCAAGC	CTGCAAACCT	4680
TCCCAAGCTG	ATTGGTTGAA	TGATTTGTCA	TCAACACCAC	CAGTATCAGT	GACGATTGCT	4740
GCTTTTGTCT	TCACATCAGA	AGATGAAGCT	GCGTTACGAG	AAGAGCGGTT	ACCACATGCA	4800
GCAAGTCCAA	CTGCTGCCAC	TGCAACTAGG	CCAAGACCTA	GCCATTGTTT	CTTGTTCATT	4860
ACTGAACCTC	CTAAATAAGA	TGTGCAACGA	TGTTGCAAGT	ATGGATTGGT	TGGCCACAAG	4920
GACCGTGCCA	CTCAGAGAGC	GACTCAGACT	AGTTTAAGTC	TGTAAAAGAG	TATGGAAGTA	4980
ATTCCCCGAC	CGTCATCTCG	ACCGTCGATT	TATCTTTTGC	GACTAAGGTC	ACTTTTAGAT	5040
CTTGTTCAAA	AAATTCAGCC	ATCACTTGGC	GACAAGCACC	ACATGGCGAG	ATCGGTTTTT	5100
CAGTTTGACC	ATAGACAATC	AATTCTGAAA	ATTCTCTTTG	GCCTTCAGAT	ATAGCCTTAA	5160

AAA	ATAGCTGT	TCTCTCACCG	CAATTGGTCA	AAGGATAGCT	AGCATTTTCA	ATATTCACTC	5220
CCC	STGTAAAC	ACTTCCGTCT	TTAGCTACTA	AAACTGCTCC	GATAGGAAAG	TGAGAATAGG	5280
GG <i>P</i>	CATAGGC	ATGTTTGCTG	GTTTCAATTG	CCAGTTCAAT	CAACTCAGTA	GTCGCCATCT	5340
CC	CAATTCTC	СТТТТААААТ	AGCTACCCCA	GCTGACGTTC	CGATACGGGT	CGCACCTGCT	5400
rce	SACAAAGG	CAAGAGCATC	TGCATAAGAA	CGAGCTCCAC	CGGCGGCCTT	GACACCCATA	5460
rc <i>a</i>	GATCCAA	CTGTTTCACG	CATTAATGTA	ACATCTGCTA	TCGTAGCACC	ACCAGTTGAA	5520
AAG	CCAGTAG	ATGTTTTGAC	AAAGTCAGCC	CCAGCTTTTT	GGGCCAATTG	GCAAACAACA	5580
ACI	TTTTCTT	GGTCTGTCAG	AAGGCAAGCT	TCAATAATGA	CTTTCACTAA	CTTATCACCA	5640
TI	GCTTCCA	CTACTGCGCG	AATATCTGAC	TCAACCAAGG	CTAAATTACC	TGATTTGAGA	5700
CI	CCAACAT	TGATCACCAT	ATCAATCTCA	TCTGCACCAT	TTTGGATAGC	TTCTTTTGTC	5760
CA	AATGCTT	TCACGGCTGA	AGTTGTTGCT	CCCAAAGGGA	AACCTACTAC	TGTGCAAACC	5820
CTA	ACATCTG	TGCCTTCAAG	TCCTTTTTTA	GCATGTTCAA	CCCAGGTCGG	ATTAACGCAA	5880
ACA	CTGGCAA	AGTCATACTC	TCTAGCCTCA	GACAACAAAC	TATCAATTTG	TTTTTTCTTT	5940
<b>SCA</b>	TCTTGTT	TTAAAAGCGT	ATGATCTATA	TATTTATTTA	ATTTCATTTC	GGTTTTCCCT	6000
CA	TTTAGGA	GATGATTTCT	ACAATTTCAC	GGATTTTTTT	CACTTCATCA	CTTATTTTAA	6060
CAC	ATTTTTG	GAAATCTGTA	ACTAGTTGAG	GTGGAATTTT	TTCATTTGTG	TATACTTTTG	6120
:AA	CAATTTC	ACCCTTTTGA	ACGGAGTCTC	CAATCTTCTT	TTCAAAAACA	ATTCCTGTTT	6180
CAT	AGTCCAA	GGCATCAGAC	TTAACTGCAC	GACCAGCACC	CAGCCTCATG	GCATAAAGAC	6240
:AA	AGTCCAT	AGCTGGAAGA	GCTGAAATGA	CACCCGTTTC	CTGAGCAGGG	ATTTCCACCA	6300
CAT	GAGCTAC	ATTTACAGGA	CGATAGAGGT	CTTCCAAGTC	TCCACCTTGG	GCTTGCACCA	6360
тт	CCTCAAA	CTTAGCCAGT	GCTTGACCAT	TCTCAAGATG	TTGGTGAACT	TCTTCAACAG	6420
TT	TGTTAAC	ATTTGCCAAA	CCAAGCATAA	TTTGAGCCAA	TTCACAAATA	AAGTGGGTAA	6480
'AT	CCTGACG	TCCTTGACCT	TGCAAAATCT	CCAATGCTTC	AAGGATTTCC	AGACGATTTC	6540
:AA	TCGCTCG	TCCCAAAGGC	TGGCTCATAT	CCGTAATCAC	TGCTACTGTC	TTCCGTCCAA	6600
:AA	CCTTACC	AAGATCTACC	ATAGTTTGAG	CCAACTCACG	CGCCTCATCA	ACCGTCTTCA	6660
GA	AGGCACC	CTCACCGACA	GTCACGTCTA	GCAAAATAGC	ATCCGCCCCT	GCCGCAATTT	<b>672</b> 0
CT	TGCTCAT	CACCGAACTC	GCAATCAAAG	GAATCGTGTC	GACAGTTGCG	GTCACATCAC	6780
AA	GGGCATA	GAGAAGCTTA	TCTGCTTTGA	CCAGCTGGTC	TGATTGCCCA	ATGACAGATA	6840
TC:	CAATATC	CTGAACCTGA	CGAATAAAAT	CCTCTTGACT	ACGTTCTACT	TGATAGCCCT	6900

			200			
TAATGGACTC	CAATTTATCA	ATTGTTCCGC	CTGTATGGCC	AAGACCACGA	CCACTCATTT	696
TTGCTACAGG	CACACCGAAG	CTAGCAACAA	GAGGAGCTAA	AATCAAGGTT	ACCTTATCGC	702
CGACACCACC	AGTAGAATGC	TTGTCAACTT	TCACACCATC	AATGGCTGAC	AGGTCAAACT	708
CTTGCCCAGT	CTTAACCATA	TTCATCGTTA	AATCAGAGAT	TTCTCGAGTC	GTCATTCCTT	714
TAAAATAAAC	AGCCATAGCA	AAGGCAGACA	TCTGATAATC	AGGAACAGTT	CCTGATACAT	720
AGCCTTCTAT	CAGCCATTCA	ATTTCACTTG	AAGTCAGTTC	TTGACCGTCT	CGTTTTTTTT	726
GGATTAAATC	AACTGCTCTC	ATTCTTTCAC	ACTTCTAAGG	ATATAGTATC	CCTTGTCTTT	732
TTTAAGGATT	TCACAATTGC	CAAACACATC	TTCCATCTTA	GACTTGGCAC	TTGGAGCTCC	738
TTGTTTTTTC	TGGATGACGA	TGGTCAAATC	TCCACCAATT	TCCAAGAAAT	CTTTACTTTT	744
CTCGATGATT	TCATGAACGA	CTTGCTTGCC	CGCACGGATA	GGAGGATTGG	AAATGACATG	750
GTCAAATCGC	CCTTGAACTC	TTGCATAAAT	ATTAGATTGA	AATATCGTCG	CTTTTGCATT	756
ATTTTTTTCA	GCATTTCTCT	GAGCTAAATC	CAGGGCACGA	GTGTTAATAT	CAACCATGGT	762
CGCCTGAACT	CCGTAAACCT	TGACCAAGGA	CAAACCTAAT	GGACCATAAC	CACAGCCTAC	768
ATCTAGGACT	GTCTCTCCTT	GGTTGACATC	CAGACACTTG	AGCAAGAGTT	GACTTCCAAA	774
GTCAACCATT	TTCTTGCTAA	AAACACCCGC	ATCTGTCAAA	AAAGTCATTT	TTTCTCCCAA	780
CAAGTCCACT	CTCAACTCAT	GAATGTCGTG	AGCAGCGTCA	GGATTTTCTG	CATAGTACAT	7860
TTTACTCATG	ACACTATTTT	ACCATAATTT	GACTCAAATT	GTAAATCGTT	TACAAATTGA	7920
TAATAAAACG	AAAAAGACCG	AAGAAAGCAA	GTCACGAAGC	CATTTTCTTC	AATCTCTTTC	7986
AACACTTATA	AATAATAAAC	CATTTAGAAC	TATAAATATC	ACAGTCCAGA	ТАААААСААА	8040
AAGTTTATCA	TCTATAATCA	GGCAGATTAT	TATTTCTATT	GCTTAACCTT	AAAATACTTT	8100
ATTATCAACA	AAATTCCTAA	CAAAATGTTT	AGATAAAAGC	CCAACTGATA	CGTTTATGTC	8160
AGGATTTCCA	AACTTGTCCA	AAGTCGTATC	AAATCTTCTA	GTGACATGTG	GAAGAAATAA	8220
CCCTCTGTCG	CAATCCGTAG	GACTAAAAAG	CAATAACTAC	CCGCAGCAAT	CCATTTCGTC	8280
CATCGTTTTT	TAGTAAGAAA	GCAATTAAGA	ACGAACAAAT	AAAGACAGCT	GTTACAATAG	8340
CATGTTCCAT	CAAAAAAGTA	AAACCGTAAT	AGGTTTCCAC	AAAGCATCTA	CCATTATCTG	8400
CATTGGTTCC	TTTTATAAAA	GGTAAAGCAA	AACTTAAAAT	AAAACAGAGT	TCCAATATGT	8460
AACGTTTTAA	GATTTTCATA	GTACACCTCC	TATAAGTTGT	GAACTAAAAA	GCCCCCTTTA	8520
TAAGCTTATA	AATCAGTAGA	ATCTATCTCC	TATTTCATCA	ATAAATTGAT	CACTTATACT	8580
ATATACCATT	GACTTACCAC	ATTCAAGAAA	CCGCTTTATT	TTTTTAGCTT	TTTATGGTAT	8640
GATAGACAAA	ATATCTAGGG	GAAAACAAAT	GACCAACGAA	TTTTTACATT	TTGAAAAAAT	8700

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CAGCCGCCAG	ACTTGGCAAT	CTTTACATCG	AAAGACAACA	CCTCCTTTGA	CAGAAGAAGA	8760
ATTGGAATCT	ATCAAGAGTT	TTAATGACCA	AATCAGTCTC	CAAGACGTTA	CAGATATCTA	8820
TCTCCCCTTG	GCTCATTTGA	TTCAGATTTA	CAAGCGAACT	AAGGAAGATT	TAGCCTTTTC	8880
AAAAGGAATT	TTCCTCCA					8898

# (2) INFORMATION FOR SEQ ID NO: 70:

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 13188 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double
   (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 70:

TATCTTAACG aGGATTGGGT	TTATCGTCAG	TCTTATTGCC	CTAATTGTGG	GAACAATCCC	60
TTAAATCATT TTGAAAATAA	TCGGCCTGTA	GCAGATTTTT	ACTGTAATCA	TTGTAGTGAG	120
GAGTTTGAAC TAAAGAGCAA	AAAAGGAAAT	TTTTCATCAA	CAATCAATGA	TGGTGCTTAT	180
GCAACGATGA TGAAGCGTGT	GCAGGCAGAT	AATAATCCTA	ATTTCTTTTT	TTTAACTTAC	240
ACAAAAATT TTGAGGTAAA	TAACTTTCTT	GTCCTTCCGA	AGCAATTTGT	TACACCGAAA	300
TCGATTATTC AAAGAAAACC	ACTTGCACCA	ACTGCTAGAC	GAGCAGGTTG	GATTGGTTGT	360
AACATTGATT TATCACAAGT	ACCTTCTAAA	GGAAGGATAT	TTCTTGTGCA	AGATGGACAA	420
GTTAGAGATC CAGAAAAAGT	TACAAAAGAA	TTTAAGCAAG	GTTTATTTT	AAGGAAGAGC	480
TCTCTGTCAT CAAGAGGTTG	GACAATAGAA	ATTCTAAATT	GTATAGATAA	GATAGAGGGT	540
TCAGAATTTA CCCTTGAAGA	TATGTATCGT	TTTGAAAGTG	ACCTAAAAAA	TATCTTTGTT	600
AAGAACAATC ATATCAAAGA	AAAGATTAGG	CAACAGCTTC	AAATATTAAG	AGACAAAGAA	660
ATAATAGAAT TTAAAGGTAG	AGGAAAGTAT	CGGAAATTAT	GAAAACGAAA	CAACTTGTTG	720
CATCAGAAGA GGTGTATGAT	TTCTTAAAAG	TCATCTGGCC	TGATTATGAA	ACTGAAAGCC	780
GTTACGATAA CCTAAGTTTA	ATCGTCTGTA	CCTTATCAGA	TCCCGATTGT	GTGAGATGGT	840
TATCTGAAAA TATGAAATTT	GGTGACGAAA	AACAACTAGC	TTTGATGAAG	GAAAAATATG	900
GGTGGGAAGT AGGAGATAAA	TTGCCAGAGT	GGCTACATAG	СТССТАТСАТ	AGATTATTGT	960
TAATAGGTGA ATTATTGGAA	AGCAATCTAA	AACTGAAAAA	GTATACAGTA	GAAATTACAG	1020
AAACTTTATC ACGTTTAGTA	AGTATAGAGG	CTGAAAATCC	AGATGAAGCC	GAACGACTTG	1080
TAAGAGAAAA GTATAAGAGT	TGTGAAATTG	TTCTTGATGC	AGATGATTTT	CAGGACTATG	1140

			568		•	
ACACTAGCAT	ATATGAATAG	GTAGATGTTT	TTATTTTGTC	AACAAAAAAG	AGGCTCGCAC	1200
CTCTTTTTCT	TATTTCTTTT	TATGATTTAA	TACGGCATTG	AGGACAATAG	CGAGTAGGCT	1260
GGCTACGACG	ATTCCGTTTG	AGAAGAACAT	TTGGAAGGCT	GTCGGCATGC	TGACAAAGAG	1320
ATTACTGTTG	TTGAGACCGA	CACCTGCAGC	GATTGAAACA	GCTGCGATAA	GGAAGTTGTG	1380
гтсаттстта	GCAAAGTCAA	CACGGGCGAG	GATTTGCATC	CCTTGAATTG	ATACAAAACC	1440
AAACATTACC	AGCATGGCAC	CACCGAGGAC	GGAGCTTGGA	ATGATTTGGG	CAAGGCCCC	1500
AACTTAGGA	AGCAGTCCAA	GGAGAACCAG	GAAACCAGCT	GCGTAGTAGA	TTGGCAGGCG	1560
TTTTTTGATG	CCTGACAATT	TAACCAAACC	AACGTTTTGT	GAAAATCCGG	TGTAAGGGAA	1620
GGTGTTAAAG	ATTCCTCCGA	GAAGTACGGC	CAAACCTTCT	GCGCGGTATC	CGTTGCGAAG	1680
CCCCTCCTC	TCGATTGGAT	CCTTTGTGAT	ATCAGACAAG	GCCAGATAAA	CACCAGTTGA	1740
СТСААССАТА	GACACCGTTG	CGATGATACA	CATCATGACA	ATAGATGAGA	TTTCAAAGGT	1800
rggcatccca	AAGTAGAGTG	GAGTTGGGAC	ATGGACAAGT	GGAGCTACCG	CAACAGGAGA	1860
GAAGTCCACC	AAGCCCATAG	TAGCAGCAAT	GGCAGTTCCA	ACAACCAGAC	СААТСААААТ	1920
AGAGATAGAC	TTGATAAATC	CTTTGGTAAA	GATGTTGATC	AAGAGGATAA	TCAGAACAGT	1980
AATAGCTGCA	AGCAAGAGAC	TTTGACCAGT	TGGCTCTGGA	ACGTTATTTC	CCATATTTCC	2040
AATAGCGACA	GGGATCAAGG	TTAAACCAAT	CGTGGTAATA	ACAGATCCTG	TTACGATAGA	2100
rgggaagaga	TTGGCTACTT	TTGAGAAGAT	GCCTGAAACA	AGAACCACGT	AAATCCCAGA	2160
rgcgataagg	GCACCAAACA	TAGCGCCACT	ACCATGGCTT	TGCCCAATCA	TAATCAAGGG	2220
AGCGACCGAC	TGGAATGCAA	CTCCAAGAAC	GACTGGGAGT	CCAATCCCAA	AGTATTTGTT	2280
GAGTTGGAGT	TGGAGGAAGG	TTGCCACCCC	ACACATGAAG	ATATCTGTAG	AAATCAGGTA	2340
GTCAACTGC	TCAGCTGAAT	AGCCAAGGGC	TGTCGCAATC	ATGATGGGAA	CCAGGATAGA	2400
CCTGAGTAC	ATGGCTAGTA	AGTGCTGCAA	GCCAAGAACG	GCTGCTTGCG	AGTGTTTTTC	2460
PTGAGTTTGC	ATTAGAGATC	TGCCTCCTTA	AATACGACTT	GACCATTTTC	AAAACAATCC	2520
AACGAGCAA	GTGATAGGAC	AGGGTAGCCT	GCTTTTTCAA	GCAAATCACG	ACCATCTTGG	2580
\AGGATTTCT	CAATCACGAT	ACCGATAGCT	TGGACTGTGG	CACCGGCCTG	TTCGATGATT	2640
rgaatcaagc	CTTTAGCAGC	TTGGCCATTA	GCAAGGAAAT	CGTCGATAAT	CAAAACCTTG	2700
PCCTCTGGTG	AGAGGAATTT	TTCAGCGATA	GAAACGGTGC	TGGTCACCTG	CTTGGTAAAG	2760
SAGTAGACTT	GAGCAGTTAA	GATGCCTTCG	TTCATGGTGA	TGTTCTTAGC	TTTTTTGGCG	2820
AAATCATGG	GAACGTTTAA	GGCTTCAGCT	GTAAAAACGG	CTGGGGCAAT	ACCCGACGCT	2880
гсаатсстта.	CGACCTTGGT	AATGCCAGTA	GTAGCAAATT	<b>Τ</b> ΤΤΤΟΟΟΟΔΑΑ	ልአርርጥጥልርርል	2940

ATCTCTCGCA	TCAAGCTAAA	GTCAACTTGG	TGGGTTAAAA	AGGAATCTAC	CTTGAGGATG	3000
TTATCACCCA	AGATATGCCC	ATCCTTGAGG	ATGCGCTCTT	СТААТААТТ	CATAAGACCT	3060
CTAAAGTCT	AAAAGTTAAT	TTACTTGTTG	TTTAAATATT	TCTATAGTGA	TCCCTTTTGC	3120
TAATACTATA	TATTTGATAA	AACTATTACG	AGCGAAGCGA	GTCTTATCAA	ATATTTCCCG	3180
PTGTAGTGGT	ATCATAGACA	ATAATCTTGT	TATTGTCTAT	GACGGGATTT	TTGAGAGTAA	3240
ATAGTTCGG	GGAACTATTT	TAGCCTAAGC	CTAGAAATGA	AAGAGCTAGG	GGCTCAAAAA	3300
<b>PTAGGGATGA</b>	AATTCCCTGG	ATTCCTGAAA	TTATTCACAG	GATAATTTCA	CCTCCCGTCC	3360
CACTAATTA	AGGGAAATAT	TAAAAAAAGA	CCTACTTAAT	CTCTAAGTAA	GTCCCCTAAA	3420
PAGACATGGC	AAAAACGGCC	ATATCTCACT	GCTGACTTAC	TTATTGTTAG	GTGTTCCGGC	3480
ACCTTGTAGA	AACGTCGTGC	CAATTCACGA	CATAAACAAG	TAAAACGATA	TTCAATTTTA	3540
<b>ATAGGCTTG</b>	AGCCAATGTT	TTTATTTTAC	ACTAAATAAC	TTTAGAAATC	AACTATTTTG	3600
TTAGTGTTTT	GGTTTAAAAA	ACGAACAAAA	AGAAGAGAGG	GTGAACAAAA	ACTCCATTGT	3660
AGCTAACAG	ттатастааа	TGAAAATCAA	AGAGCAAACT	AGGAAGCTAT	CCACAACCTC	3720
<b>AAACACT</b> GT	TTTGAGGTTG	TGGATAGAAT	TGACAGAGCC	AGTATCATAT	ACCTACGGTA	3780
AGGCGACGTT	GACGTGGCTT	GAAGAGATTT	TCGAAGAGTA	TTAGAAGATT	TTTCCATCAT	3840
<b>AAAAGGCA</b> TA	CTATCAAGCT	TTTAGACACC	TGACAATATG	CCTTTTTCTA	ACTTTAAAGA	3900
TTTTCCCAA	. ТТТТТАТТАТ	TCTACTCGCT	AAATCTTAAA	AAATAGCCAT	CTGGATCCAA	3960
ACTGCAAAT	TTATGAGGAT	AGATATAGGG	ATCACTGACA	CGAAACTTTC	TTTTGGTCAA	4020
GGACGATAA	ATAGGATAGT	TTGCCTTCAT	CACTCTTTAA	TAGAGTTTTG	AAACATCCTT	4080
PATGCCAAAG	GAGAGATTGA	CTCCACGACC	AAAGGGATAG	GTCAGTTCAG	CTAGTTGATC	4140
TTTGTTCCC	TCCTCTAACA	TTAGTTGACA	CTCTTCAAGA	GAAAGAGAAA	GTTTTCTTCT	4200
GACGTTGGT	ATTCAATCCT	AAAACCCAGT	AAACCACAGT	AGAAGGACCG	GGACTGTTCG	4260
TATTCGATA	CAAGCAACTC	GGGAATGACC	GCATTGTAGT	CCATATAGAA	AATCCTTACA	4320
GTCAATTTC	CAAGACAATC	GGTGTATGGT	CTTGGCGAGC	ACCTGAGTCA	ATCATATCAG	4380
\TTTAGTGAC	CTTGTCAGCG	ATACGGTTAC	TTGTGAGCCA	GTAGTCGATT	CTCCAGCCTG	4440
TATTGTTGAT	TTTAGAAGTT	TTGCTGCGTT	GTGCCCACCA	AGTGTAGCGT	TCAGGAACAT	4500
CGCCATGAAC	ATGGCGGAAG	GTGTCTGTAA	ATCCAGTTGC	CAAAAGGTTG	GTAAATCCAG	4560
ACGTTCCTC	GTCAGTAAAT	CCAGGTGAAC	GCCGGTTGCT	AGCAGGATTT	GCAAGGTCGA	4620
TTCATTGTG	GGCTACGTTG	TAGTCACCGG	TCGCAAGGAC	TGGTTTTTCT	TTGTCTAGTT	4680

			570		•	
CAGCCAAATA	CTCAGCATAT	TTGGCATCCC	AGACTTGGCG	TTCTTCCAAG	CGTTTGAGAC	4740
CGTCACCAGC	GTTTGGAGTG	TAAACTTGGG	TTACGAAAAA	TGCATCAAAT	TCTAGAGTGA	4800
TGATACGACC	TTCCAAGTCC	ATGGTAGAAG	GGGCACCGAT	TTCTGGGAAG	CTGATAGTAG	4860
GTGTAAGTTC	ТТТСТТАТАА	AGGAACATGG	TTCCAGCATA	GCCTTTACGG	GCAGGCTCTT	4920
GGGAAGAGCG	CCACGTGTTT	TCGTAGCCTG	GGAAGAGTTC	TTCTAAAATT	TCCACGTGTT	4980
TCTTTGTAGG	TCCTTTGGCA	GAAAGCTTGG	TTTCTTGGAT	AGCAATGATA	TCAGCATTTT	5040
CAGCGACCAA	GGTTTGTAGG	ACTTCTTGGG	ACAATTTGGC	ACGAGCTGAG	TCACTAGTTA	5100
GGGCAGCGTT	TAGGGAATCA	ATATTCCATG	AGATAAGTTT	CATAAAGTTA	CCTTTTTCAT	5160
TCAGATTATA	GATTTTATTA	TACCAAAAAA	AGATCTATTT	CCCCAACGTA	TGGTTTGAAA	5220
AATTACTCTC	TTTCGTTTAT	AATTAAGAAT	GATTTTATGA	AAGGGAGTGA	AAATACATGA	5280
AATTCTACTC	TTATGACTAT	GTACTCAGCC	AAATCGGTCA	GCAAAATGGT	ATCATGGTTG	5340
GCTTTGGGAT	TGTTCTATTA	GCTGTGACAG	TTTTTTTTCC	TTTCAAGGCA	ТАССАТААТА	5400
AAAAGGGAAG	CGAATTTCGT	GAGTTGGTCA	TGATTTCAGA	TCTGGCCTTA	TTTAGCTCTG	5460
CTTTTGGTCA	GCATCACGAC	TTATCAAAAC	AATCAAGTTT	СТААСААТАА	ATTTCAAACT	5520
<b>PCACTTCATT</b>	TCATCGAGGT	TGTTTCCAAA	GATTTGTGAG	TAGACAAGTC	AGAAGTCTAT	.5580
GTTAATACTT	CCACAAACAC	AGATGGCGCA	CTTATCAAGG	TGGGAGATCG	CTATTATCGT	5640
GCCCTAAATG	GAAGTGAGCC	AGACAAGTAC	CTGTTAGAGA	AAGTCGAATT	GTATAAGACA	5700
GACGCAATTG	AACTGGTGGA	TGTGAACAAA	TGACACTTAA	ТТАТАТСGAA	ATTTTAATCA	5760
AACTGGTCTT	GACTCTCAAA	TAGCTCAACA	ACAATGTTCA	CTTTGTGAAA	CGTTTGATTG	5820
ATGGTAAGCC	AACTCTCCTT	ATCAAAAATG	GGAATATTGA	CCCAGAAGCC	TGTCGTTCAG	5880
PTGGTTTGTC	TGCATCGGAT	GTATCCCTCA	AACTTCGTAG	CCAAGGGATT	TTCCAGATGA	5940
AGCAAGTCAA	ACGAGCTGTG	CAAGAGCAAA	ATGGGCAACT	CATCGTTGTG	CAAATGGGAG	6000
ATGAAAATCC	TAAGTATCCA	GTTGTGACTG	ACGGTGTGAT	TCAAGTAGAT	GTCTTGGAAT	6060
CGATTGGTCG	TAGCGAAGAG	TGGTTGCTTG	ATAACCTCAG	TAAACAAGGG	CATGACAATG	6120
PAGCCAATAT	CTTTATTGCT	GAATATGACA	AGGGTGCTGT	TACAGTCGTA	ACTTATGAAT	6180
AAGAAAAACC	TGGGGTCTTG	TACTCTTCGA	AAATCTCTTC	AAACCGCGTC	AACGTCGCCT	6240
rgccgtatgt	AGGTTACTGA	CTTCGTCAGT	TCTATCTACA	ACCTCAAAGC	AGTGCTTTGA	6300
GCAGCCTGCG	GCTAGTTTCC	TAGTTTGCTC	TTTGATTTTC	ATTGAGTATT	GGCCTCAGGT	6360
PTCCATTTGC	AATCAGAAAG	GGATTTTATG	TCCATTATTC	AAAAACTTTG	GTGGTTTTTC	6420
AAGTTAGAAA	AACGCCGTTA	TCTAGTCGGA	ATTGTGGCCC	TGATCTTGGT	TTCCGTCCTC	6480

AATCTCATTC	CTCCTATGGT	TATGGGGCGG	GTCATTGATG	CCATCACATC	GGGCAATTA	6540
ACCCAGCAGG	ACCTCCTTCT	TAGCCTATTT	TACTTGCTAC	TTGCAGCCTT	TGGTATGTAC	6600
PATTTGCGCT	ATGTGTGGCG	TATGTATATC	CTTGGGACCT	CTTATTGCTT	GGGACAGATC	6660
ATGCGGTCTC	GCTTGTTTAA	GCATTTCACA	AAAATGTCGT	CAGCCTTTTA	TCAAACCTAT	6720
CGGACGGGTG	ATCTGATGGC	ACACGCAACC	AATGATATCA	ATGCCTTGAC	TCGTTTAGCA	6780
GGTGGCGGTG	TCATGTCTGC	GGTGGATGCC	TCTATCACGG	CTCTGGTGAC	TTTGTTGACC	6840
ATGCTCTTTA	GCATCTCATG	GCAGATGACT	CTTGTTGCCA	TTCTCCCCCT	ACCTTTCATG	6900
GCCTATACGA	CTAGTCGCCT	AGGGAGAAAG	ACTCATAAGG	CCTTTGGCGA	ATCCCAAGCT	6960
GCTTTTTCTG	AACTCAATAA	CAAGGTACAG	GAGTCCGTAT	CAGGTATCAA	AGTGACCAAG	7020
PCTTTCGGTT	ATCAGGCAGA	CGAGTTGAAG	TCTTTTCAGG	CAGTCAATGA	ATTAACCTTC	7080
CAAAAGAACC	TGCAAACCAT	GAAATATGAT	AGTCTCTTTG	ACCCTATGGT	TCTCTTGTTT	7140
GTTGGTTCGT	CCTATGTTTT	AACGCTTTTG	GTTGGCTCCT	TGATGGTTCA	GGAAGGGCAG	7200
<b>ATTACAGTTG</b>	GGAATCTAGT	CACCTTTATC	AGCTATTTGG	ATATGCTGGT	CTGGCCTCTT	7260
CTGGCCATCG	GTTTCCTCTT	TAATACTACT	CAGCGAGGGA	AGGTTTCTTA	CCAGCGGATT	7320
GAAAATCTTT	TGTCTCAGGA	ATCTCCTGTA	CAAGACCCTG	AGTTTCCTCT	GGATGGTATT	7380
GAAAATGGGC	GTTTGGAGTA	TGCCATTGAC	AGCTTTGCTT	TTGAAAATGA	GGAAACACTG	7440
ACGGATATTC	ACTTTAGTTT	GGCAAAAGGG	CAAACACTGG	GCTTGGTTGG	GCAGACAGGC	7500
rctgggaaaa	CGTCCTTAAT	CAAGCTCCTC	TTGCGTGAAT	ACGATGTGGA	TAAGGGTGCC	7560
<b>ЧТТАТСТАА</b>	ACGGTCACGA	TATTCGGGAC	TATCGTCTGA	CAGACCTTCG	CAGTCTCATG	7620
GCTATGTTC	CTCAGGACCA	GTTTCTTTTT	GCGACTTCAA	TCCTAGACAA	TATCCGCTTT	7680
GCAATCCTA	ACTTGCCCCT	TTCAGCGGTC	GAGGAAGCTA	CTAAGCTAGC	CCGGGTTTAC	7740
CAAGATATTG	TAGACATGCC	TCAAGGATTT	GATACGCTGA	TTGGTGAAAA	AGGAGTCACT	7800
CTTTCTGGTG	GTCAAAAGCA	ACGGTTGGCT	ATGAGTCGGG	CTATGATTTT	AGACCCTGAT	7860
ATCTTGATTT	TGGATGATTC	CTTATCCGCC	GTAGATGCCA	AGACAGAGTA	TGCGATTATC	7920
GACAACCTCA	AGGAGATGCG	AAAGGACAAG	ACAACCATTA	TCACTGCCCA	TCGCCTCAGT	7980
CTGTTGTCC	ATGCAGATTT	TATTTTAGTT	CTACAAAATG	GTCAAATTAT	CGAACGAGGC	8040
ACGCACGAAG	ACTTGCTAGC	TTTGGATGGC	TGGTATGCCC	AAACCTACCA	GTCTCAGCAG	8100
ttggaaatga	AAGGAGAAGA	AGATGCAGAA	TAAACAAGAA	CAATGGACTG	TATTGAAGCG	8160
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AGCGACGACG	GTCATTAAAA	GTGTCATACC	CCTCGTGGCT	TCCCACTTTA	TCGACCAGTA	8280
PCTCAGCAAT	CTTAACCAAC	TAGCCGTTAC	CGTTTTGCTG	GTCTACTATG	GTCTCTACAT	8340
CTACAAACT	GTAGTTCAGT	ATGTCGGCAA	TCTTCTCTTT	GCGCGCGTGT	CTTACAGTAT	8400
rgttagggat	ATTCGTCGGG	ATGCCTTTGC	CAATATGGAG	AAACTGGGCA	TGTCTTACTT	8460
rgacaagacg	CCAGCAGGTT	CTATCGTTTC	TCGTTTGACC	AACGATACCG	AGACGATTAG	8520
'GATATGTTT	TCTGGGATTT	TATCCAGCTT	TATCTCAGCA	GTTTTTATCT	TTCTGACAAC	8580
CTTTATACC	ATGTTGGTGC	TGGATTTTCG	TTTGACGGCT	TTAGTCTTGC	TCTTTCTTCC	8640
TTGATTTTC	CTTTTGGTCA	ATCTCTATCG	AAAAAAGTCA	GTGAAAATCA	TCGAGAAAAC	8700
CAGAAGTCTC	TTGTCAGATA	TCAATAGTAA	GCTGGCAGAG	AATATCGAGG	GAATCAGGAT	8760
TATTCAGGCC	TTTAATCAAG	AGAAGCGCCT	GCAGGCAGAA	TTTGATGAAA	TCAACCAAGA	8820
ACACTTGGTC	TACGCCAACC	GTTCTGTAGC	CTTGGATGCC	CTCTTTTTGA	GACCTGCCAT	8880
SAGTTTGCTG	AAACTTCTAG	GCTATGCAGT	CTTGATGGCC	TACTTTGGCT	ACCGTGGTTT	8940
TTCTATCGGG	ATAACGGTCG	GGACCATGTA	TGCCTTTATC	CAGTACATCA	ACCGCCTTTT	9000
GACCCCTTG	ATTGAGGTGA	CGCAAAACTT	TTCAACTCTG	CAAACGGCTA	TGGTTTCTGC	9060
AGGTCGTGTC	TTTGCCCTGA	TAGACGAGAG	GACCTATGAA	CCTCTTCAAG	AAAATGGGCA	9120
AGCCAAAGTC	CAAGAAGGCA	ATATCCGTTT	TGAACATGTG	TGTTTCTCAT	ATGACGGTAA	9180
CATCCGATT	CTGGATGACA	TTTCTTTCTC	TGTTAATAAG	GGTGAAACCA	TTGCCTTTGT	9240
AGGTCATACA	GGTTCAGGGA	AATCGTCTAT	TATCAATGTC	CTCATGCGCT	TTTATGAATT	9300
CAGTCAGGG	AGAGTTCTCT	TGGATGATGT	GGATATCAGG	GATTTCAGTC	AAGAAGAGCT	9360
GAGAAAAAAC	ATCGGTTTGG	TCTTGCAGGA	ACCCTTCCTC	TATCATGGAA	CTATTAAGTC	9420
CAATATCGCC	ATGTACCAAG	AAACCAGTGA	TGAGCAGGTT	CAGGCTGCGG	CAGCCTTTGT	9480
GATGCAGAT	TCCTTTATTC	AAGAACTTCC	TCAGGGGTAC	GACTCCCCTG	TTTCCGAGCG	9540
TGGTTCGAGC	TTCTCTACTG	GGCAACGCCA	GCTTCTTGCC	TTTGCTAGAA	CAGTCGCCAG	9600
CAGCCTAAA	ATCCTGATTT	TGGATGAAGC	GACAGCCAAT	ATTGACTCTG	AAACAGAAAG	9660
TTGGTTCAA	GCTTCTCTGG	CGAAGATGAG	ACAGGGCCGA	ACAACTATTG	CTATCGCTCA	9720
CCGCCTTTCT	ACTATTCAAG	ATGCCAACTG	CATCTATGTC	TTGGATAAGG	GACGCATTAT	9780
GAGAGTGGA	ACCCATGAGG	AACTCTTGGC	TCTGGGAGGA	ACCTATCACA	agatgtatag	9840
TTGCAGGCA.	GGGCCATGG	CCGATACTCT	TTGAAAATCT	CTTTAAACCA	TGTCAGCTTT	9900
ATCTGCAATC	TCAAAGCTGT	ACTTTGATTT	TCATTGAGTA	CTAGAAGGAA	ATCCTTCAAA	9960
TACAGATTT	CTTTCACCGC	CTTTTCCATT	TTGTGGTATA	ATGAAAAATG	TTGACAAATA	10020

GTA:	AAATAAT	AACAAAGGAG	AACAGCATGC	TGAAATGGGA	AGACTTGCCT	GTGGAAATGA	10080
AAT	CAAGCGA	GGTTGAGTCT	TACTACCAGC	TTGTCTCTAA	AAGGAAGGGT	TCGCTGATTT	10140
rca;	AGCGTTG	CTTGGACTGG	GTTTTGGCCT	TGGTCTTACT	GGTTCTGACC	TCTCCCATCT	10200
rrci	<b>CATCTT</b>	GAGCATTTGG	ATCAAGTTGG	ATAGCAAAGG	GCCAGTGATT	TACAAGCAAG	10260
AGC	STGTGAC	CCAGTACAAC	CGTCGGTTCA	AGATTTGGAA	GTTTCGTACC	ATGGTGACGG	10320
ATG	CGGATAA	AAAAGGAAGT	CTGGTGACTT	CTGCTAACGA	TAGCCGCATT	ACCAAGGTTG	10380
GAAJ	ATTTCAT	CCGACGTGTC	CGTTTGGACG	AACTGCCTCA	GTTGGTCAAT	GTCCTTAAAG	10440
GTG#	AGATGTC	CTTTGTCGGT	ACACGACCTG	AAGTGCCACG	TTATACAGAG	CAGTATAGCC	10500
CTG	<b>\AA</b> TGAT	GGCAACCTTG	CTCTTGCAAG	CAGGGATTAC	CTCTCCAGCC	AGCATCAACT	10560
ACA	AGGATGA	GGACACAATT	ATCAGTCAAA	TGACGGAGAA	AGGTCTGTCA	GTTGATCAGG	10620
CTA	atgtgga	GCATGTTCTT	CCTGAAAAGA	TGCGCTATAA	CCTCGCCTAT	CTCCGAGAGT	10680
PAT	STTTCTT	TGGGGACATC	AAAATCATGT	TTCAAACCGT	GTTTGAGGTA	СТААААТААА	10740
TAC	STCATAA	GAAAATGAGT	ACAGATAAAA	GGAGCAAATC	AATGCCAAAT	TACAATATTC	10800
CATI	TTCACC	GCCTGATATC	ACAGAAGCAG	AAATTACTGA	AGTAGTGGAT	ACCCTGCGTT	10860
TGG	STTGGAT	CACAACAGGT	CCTAAAACAA	AAGAACTGGA	GCGCCGCTTG	TCTCTTTACA	10920
CACA	GACACC	TAAGACTGTT	TGTCTCAACT	CTGCGACAGC	CGCTCTGGAG	TTGATTTTAC	10980
CGI	TTTGGA	AGTGGGACCT	GGTGATGAAG	TCATCGTTCC	AGCCATGACC	TATACGGCTT	11040
ATC	TAGTGT	CATTACGCAC	GTGGGAGCAA	CCCCTGTCAT	GGTGGATATC	CAAGCAGATA	11100
GTI	TGAGAT	GGACTATGAC	CTGCTTGAGC	AAGCTATCAC	TGAGAAAACT	AAGGTGATTA	11160
TCC	AGTAGA	GCTCGCAGGG	ATTGTTTGCG	ATTATGACCG	TTTGTTCCAA	GTCGTGGAGA	11220
AAA	ACGTGA	CTTCTTTACC	GCTTCAAGCA	AGTGGCAAAA	GGCCTTTAAC	CGTATTGTCA	11280
TGT	CTCTGA	TAGTGCCCAC	GCTTTGGGAT	СТАТТТАТАА	AGGACAACCT	TCTGGTTCTA	11340
CGC	TGACTT	TACTTCCTTC	TCATTCCATG	CAGTTAAGAA	CTTTACAACG	GCAGAAGGTG	11400
AAG	TGCGAC	TTGGAAAGCC	AATCCAGTGA	TTGATGACGA	AGAGATGTAC	AAGGAATTCC	11460
LAAT	CCTTTC	CCTTCACGGG	CAAACTAAGG	ATGCTCTTGC	CAAGATGCAA	CTGGGGTCAT	11520
GGA	ATACGA	TATCGTTACA	CCAGCCTATA	AGTGCAACAT	GACCGATATC	ATGGCTTCAC	11580
TGG	TTTGGT	ACAATTGGAC	CGCTATCCAA	GTTTGTTGCA	ACGCCGTAAG	GACATTGTGG	11640
CCG	CTATGA	TAGTGGTTTT	GCAGGTTCTC	GCATCCATCC	TTTGGCACAC	AAGACTGAAA	11700
TGT	CGAATC	TTCACGCCAC	CTCTACATCA	CCCGTGTAGA	AGGAGCAAGC	CTAGAAGAAC	11760

			574			
CAACCTCAT	CATCCAAGAA	TTGGCTAAAG		AAGTAATGTT	CACTACAAAC	11820
CGCTTCCTCT	CTTGACAGCC	TATAAGAATC	TTGGATTTGA	TATGACGAAC	TATCCTAAGG	11880
CCTATGCCTT	CTTTGAGAAT	GAAATTACCC	TCCCTCTTCA	тасталатта	AGCGATGAAG	11940
AAGTAGACTA	TATCATTGAG	ACTTTCAAAA	CAGTTTCTGA	AAAAGTGCTA	ACTTTATCAA	12000
AAAAATGACA	AACTACAGTC	AAGCGAAAGT	GATCCTGCCC	CTAAAAAGTC	TAATTGAGTG	12060
PAAAAACTGT	TGTTTTCAAT	TGATAATAGT	TTACACCTGT	AGTTGAGGCC	CCTTTCTCCT	12120
CAGAGAGAGA	ATTTTTATAG	GATTTTCCTT	TCTTGTGGGA	GTCCCGTGGT	TTGAAATAAG	12180
ATGTGAGCAA	TTTAGTGTAG	CATTTAGAAT	CCTTACTAGA	CATCATTTAG	AAAATCTAGT	12240
STCTTGTTCT	AGTTTTCAAT	TCACCCTATT	TTTTGAAAGA	CGTGAGTTTC	CATGAGTGAG	12300
ATTGTGGAAA	CTCGCGTCTT	TTTTTGTTTT	CAGAATATTG	TTCAAAATTT	TGTGCCTGTC	12360
PTTCATGTTC	TAGTCATTCT	TTTGCATGAT	AGAATTTATA	GCATGTTGAT	ATTATAATAA	12420
PACAAATATT	CTATATGTTT	AGTGATGCTT	GCTATACATT	ATTAGATCTC	CTGCGAGACA	12480
АТСТАТАААА	CACTTGTCTA	CGATTACCTA	TATGCCCTAT	TCCAGTATTT	TAGAAGCACT	12540
GCATCTATTT	TTATCGAGGT	TAAATCTAGC	TTTTATAGAA	GGTCTATTTA	AGAAATATAT	12600
rgtagtgttt	TAGTTTCAAT	CCGCCATATG	AGCGATATTC	AGGTAAATAT	CCCTGGCGAA	12660
PGCTTGTATG	ACAAGGTATT	TGTTCTTTCA	TTTATAATTT	ACAACATATC	AACAAATTTA	12720
AATATAGTAA	ATGGGATATT	TTATATTCAA	GCTAAGAAAG	ATAGCATCAC	TTTTGAATGG	12780
AAGGCTAAAG	AGCAAACTAG	GAAGTTGGCC	ATAGATAGCT	CAAAACCCTG	CTTTGAGGTT	12840
STAGATATAG	TAAAATGAAA	TGAGAATAGG	ACAAATTGAT	CGGGACAGTC	AAATCGATTT	12900
TAACAATGT	TTTAGAAGTA	GAGGTGTACT	ATTTTAGTTT	CAGTCTACTA	TAGAACTGAC	12960
CAAGTCAGTA	ACCTAGACTT	AGGGCAAGGC	GGCACTGACC	TAGTTTGAAG	AGATTTCCGA	13020
AGAGTATAAA	TTTTAATATT	TTCTTGTGTT	ATTCCTTGAC	AATTCAATTT	GGAAAATATA	13080
rgataaagat	AATGACAGCG	GTGTCATTCT	ATCTATTTTA	AGAAAAGTAA	TAATCAATTG	13140
TTAAAAATAG	таааааатт	GGAGGTTCTG	ATGAAATATT	TTGTTCCG		13188

#### (2) INFORMATION FOR SEQ ID NO: 71:

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 32768 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double
   (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 71:

6	CCAGCGCGTC	TCAGCAAGCA	TGCGTCGGCC	CAAGCACCAG	TCAGTCTCAG	AACGAGTGCA
12	AATCAGCATC	TCAGCATCTĠ	AGCAAGTACC	CCTCAGCTTC	TCAACCAGTG	TGAATCCGCA
18	TCTCAGCGTC	TCAGCAAGTA	TGCTTCAGCC	CAAGCACAAG	TCGGCTTCAG	AACAAGTGCA
24	CATCAGCGTC	AGCGCCTCAG	AGCAAGTACT	CGTCCGCTTC	TCAACGAGTG	TGAATCGGCA
30	CGAGTACGTC	TCAGCATCAA	TGCGTCTGAG	CGTCAACGAG	TCGGCTTCAG	AACAAGTGCT
36	CCTCAGCATC	AGTGCGTCAG	TGCATCAACC	<b>CTTCTGAATC</b>	AGCACATCAG	AGCCTCAGCA
42	CCAGTGCTTC	TCAGCAAGTA	TGCGTCAGCC	CAAGTACCAG	TCAGCTTCAG	GACAAGCGCC
48	CATCAACCAG	TCTGAATCGG	AACCAGTGCA	CGTCGGCCTC	TCGACAAGTG	AGCCTCAGCG
54	CGTCCGCTTC	TCAACGAGTG	AGCCTCAGCA	CTAGCGCCTC	TCAGCAAGTA	TGCGTCAGCC
. 60	CAAGTACCAG	TCGGCTTCAG	AACGAGTGCA	CATCAGCATC	AGTGCATCAG	AGCAAGTACT
66	CCTCAGCCTC	AGTACCAGCG	AGCCTCAGCA	CCAGTGCGTC	TCAGCAAGCA	CGCCTCAGCT
72	CGTCGACAAG	TCAGCCTCAG	TACCAGTGCG	CTTCAGCAAG	AGTGCCTCAG	AGCAAGCACC
78	CATCAGCTTC	TCAACGAGTG	TGAATCAGCA	CCTCAGCGTC	TCAGCAAGTA	TGCGTCGGCT
84	CATCAACGAG	TCTGAATCGG	TATCTCAGCG	CTTCAGCAAG	AGTGCTTCAG	AGCATCAACA
90	CTTCGGCTTC	TCAACAAGTG	AGCATCAGCG	CTAGCGCCTC	TCAGCAAGTA	PGCGTCCGCT
96	CAAGCACATC	TCAGCCTCAG	AACGAGTACG	AGTCAGCATC	AGTGCGTCTG	AGCGTCAACG
102	CCTCAGCTTC	TCGACAAGCG	AGCCTCAGCA	CCAGTGCGTC	TCTGCATCAA	AGCTTCTGAA
108	CGTCGACAAG	TCAGCCTCAG	TACCAGTGCT	CCTCAGCAAG	AGTGCGTCAG	AGCAAGTACC
. 114	CCTCAGCAAG	AGTGCGTCAg	GGCATCAACC	CATCTGAATC	TCAACCAGTG	rgcgtcggcc
120	CTAGTGCATC	TCAGCAAGTA	TGCGTCCGCT	CATCAACGAG	TCAGCCTCAG	PACTAGCGCC
126	CTTCAGCAAG	AGCGCCTCAG	AGCAAGTACC	CATCGGCTTC	TCAACGAGTG	AGCATCAGCA
132	CCAGTGCCTC	TCAGCAAGCA	CGCCTCAGCC	CAAGTACCAG	TCAGnCTCAG	CACCAGTGCG
138	CTTCAGCAAG	AGTGCGTCGG	AGCGTCGACA	CGTCAgCCTC	AGTACCAGTG	AGCTTCAGCA
144	CAAGTGCTTC	TCAGCATCAA	TGCATCAGCT	CATCAACGAG	TCTGAATCAG	PACCTCAGCG
150	TCTCAGCGTC	AGTGCTTCAG	AGCATCAACG	CGTCGGCTTC	AGTACCAGTG	AGCTTCAGCA
156	CCAGTGCGTC	TCAGCAAGCA	TGCCTCGGCT	CATCAACAAG	TCTGAATCAG	AACCAGTGCC
162	AATCGGCATC	AGTGCGTCTG	AGCATCGACA	CATCGGCTTC	AGTACTAGTG	GCTTCAGCA
168	CATCAGCTTC	TCAGCAAGCA	TGCGTCAGCC	CATCAACGAG	TCGGCTTCAG	AACGAGTGCT
174	CTTC A CCCTTC	A CTCCCTCCC	ACCCTCA ACC	cemececmme	TO A COACTO	ቦር ል አጥርጥርር ላ

			576			
GACAAGTGCT	TCGGCTTCAG	CATCAACGAG	TGCGTCGGCC	TCAGCAAGCG	CAAGTACCTC	1800
AGCGTCAGct	TCCGCCTCAA	CCAGTGCGTC	GGCTTCAGCA	AGCACAAGTG	CGTCAGCCTC	1860
AGCAAGTATC	TCAGCGTCTG	AATCGGCATC	AACGAGTGCG	TCTGAGTCAG	CATCAACGAG	1920
TACGTCAGCC	TCAGCAAGCA	CATCAGCTTC	TGAATCTGCA	TCAACCAGTG	CGTCAGCCTC	1980
AGCATCGACA	AGCGCCTCAG	CTTCAGCAAG	TACCAGTGCT	TCAGCCTCAG	CGTCGACAAG	2040
TGCGTCGGCC	TCAACCAGTG	CATCTGAATC	GGCATCAACC	AGTGCGTCAG	CCTCAGCAAG	2100
TACTAGTGCA	TCAGCTTCAG	CATCAACGAG	TGCATCGGCT	TCAGCATCAA	CCAGTGCCTC	2160
GGCTTCAGCG	TCAACCAGTG	CGTCAGCTTC	AGCAAGTACC	AGTGCTTCAG	TCTCAGCATC	2220
AACAAGTGCT	TCAGCCTCAG	CATCGACAAG	TGCCTCGGCT	TCAGCAAGCA	CATCAGCATC	2280
TGAATCAGCG	TCAACCAGTG	CTTCGGCTTC	AGCAAGTACC	AGTGCTTCAG	CTTCAGCATC	2340
AACCAGCGCC	TCGGCCTCAG	CAAGCACCTC	AGCTTCTGAA	TCGGCCTCAA	CCAGCGCCTC	2400
GGCCTCAGCA	AGCACCTCAG	CTTCTGAATC	GGCCTCAACC	AGCGCCTCAG	CCTCAGCATC	2460
AACGAGTGCT	TCGGCTTCAG	CAAGCACAAG	CGCCTCGGGT	TCAGCATCAA	CGAGTACGTC	2520
AGCTTCAGCG	TCAACCAGTG	CTTCAGCCTC	AGCATCAACA	AGTGCGTCAG	CCTCAGCAAG	2580
TATCTCAGCG	TCTGAATCGG	CATCAACGAG	TGCGTCTGAG	TCAGCATCAA	CGAGTACGTC	2640
AGCCTCAGCA	AGCACCTCAG	CTTCTGAATC	GGCCTCAACC	AGTGCGTCAG	CCTCAGCATC	2700
GACAAGCGCC	TCAGCTTCAG	CAAGTACCAG	TGCTTCAGCC	TCAGCGTCGA	CAAGTGCGTC	2760
GGCCTCAACC	AGTGCATCTG	AATCGGCATC	AACCAGTGCG	TCAGCCTCAG	CAAGTACTAG	2820
TGCATCGGCT	TCAGCATCAA	CCAGTGCCTC	GGCTTCAGCG	TCAACCAGTG	CGTCAGCTTC	2880
AGCAAGTACC	AGTGCTTCAG	TCTCAGCATC	AACAAGTGCT	TCAGCCTCAG	CATCGACAAG	2940
TGCCTCGGCT	TCAGCAAGCA	CATCAGCATC	TGAATCAGCG	TCGACAAGCG	CCTCAGCTTC	3000
AGCAAGTACC	AGTGCGTCAG	CCTCAGCGTC	GACAAGTGCG	TCAGCCTCAG	CAAGTACTAG	3060
TGCATCAGCT	TCAGCATCAA	CGAGTGCATC	GGCTTCGGCG	TCAACCAGTG	CATCAGAGTC	3120
AGCAAGTACC	AGTGCGTCAg	CTTCCGCATC	AACAAGTGCC	TCGGCTTCAG	CAAGCACCAG	3180
TGCGTCGGCT	TCAGCAAGTA	CTAGCGCCTC	AGCCTCAGCC	TCAACCAGTG	CGTCAGCCTC	3240
AGCAAGTATC	TCAGCGTCTG	AATCGGCATC	AACGAGTGCG	TCCGCTTCAG	CAAGTACTAG	3300
CGCCTCAGCC	TCAGCGTCAA	CAAGTGCATC	GGCTTCAGCG	TCAACGAGTG	CGTCTGAATC	3360
GGCATCAACG	AGTGCGTCCG	CTTCAGCAAG	TACTAGCGCC	TCAGCCTCAG	CGTCAACAAG	3420
IGCATCGGCT	TCAGCATCAA	CGAGTGCGTC	CGCTTCAGCA	AGTACTAGCG	CCTCAGCCTC	3480
AGCGTCAACA	AGTGCATCGG	CTTCAGCGTC	AACGAGTGCG	TCTGAGTCAG	CATCAACGAG	3540

TGCGTCAGCC	TCAGCAAGCA	CATCAGCTTC	TGAATCTGCA	TCAACCAGTG	CGTCAGCCTC	3600
AGCATCGACA	AGCGCCTCAG	CTTCAGCAAG	TACCAGTGCG	TCAGCCTCAG	CGTCGACAAG	3660
TGCGTCGGCT	TCAGCAAGTA	CCAGTGCGTC	AGCCTCAGCA	AGTACCAGTG	CGTCAGCCTC	3720
AGCGTCGACA	AGTGCGTCGG	CCTCAACCAG	TĠCATCTGAA	TCGGCATCAA	CCAGTGCGTC	3780
AGCCTCAGCA	AGTACTAGTG	CATCAGCTTC	AGCATCAACG	AGTGCATCGG	CTTCAGCATC	3840
AACCAGTGCA	TCAGAGTCAG	CAAGTACCAG	TGCGTCAGCT	TCCGCATCAA	CAAGTGCCTC	3900
GGCTTCAGCA	AGTACTAGCG	CCTCAGCCTC	AGCGTCAACA	AGTGCTTCAG	CTTCCGCGTC	3960
AACCAGCGCC	TCGGCCTCAG	CAAGTATCTC	AGCGTCTGAA	TCGGCATCAA	CAAGTGCCTC	4020
GGCTTCAGCA	TCAACGAGTG	CATCAGTCTC	AGCAAGCACC	AGTGCGTCGG	CCTCAGCAAG	4080
CACCAGCGCG	TCTGAATCCG	CATCAACCAG	TGCCTCAGCT	TCAGCAAGTA	CCTCAGCATC	4140
TGAATCAGCA	TCAACAAGTG	CCTCGGCTTC	AGCAAGCACA	AGTGCTTCAG	CCTCAGCAAG	4200
TATCTCAGCG	TCTGAATCGG	CATCAACGAG	TGCGTCCGCT	TCAGCAAGTA	CTAGCGCCTC	4260
AGCATCAGCG	TCAACAAGTG	CTTCGGCTTC	AGCGTCAACG	AGTGCGTCTG	AGTCAGCATC	4320
AACGAGTACG	TCAGCCTCAG	CAAGCACATC	AGCTTCTGAA	TCTGCATCAA	CCAGTGCGTC	4380
AGCCTCAGCA	TCGACAAGCG	CCTCAGCTTC	AGCAAGTACC	AGTGCGTCAG	CCTCAGCAAG	4440
TACCAGTGCT	TCAGCCTCAG	CGTCGACAAG	TGCGTCGGCC	TCAACCAGTG	CATCTGAATC	4500
GGCATCAACC	AGTGCGTCAG	CCTCAGCAAG	TACTAGCGCC	TCAGCCTCAG	CATCAACGAG	4560
TGCGTCCGCT	TCAGCAAGTA	CTAGTGCATC	AGCTTCAGCA	AGTACTAGCG	CCTCAGCCTC	4620
AGCGTCGACA	AGCGCCTCAG	CTTCAGCAAG	TACCAGTGCG	TCAGCCTCAG	CGTCGACAAG	4680
TGCGTCGGCT	TCAGCAAGTA	CCTCAGCGTC	TGAATCAGCA	TCAACAAGTG	CGTCGGCTTC	4740
AGCATCAACG	AGTGCATCAG	CTTCAGCATC	AACAAGTGCT	TCAGCTTCAG	CAAGTACCAG	4800
TGCGTCGGCT	TCAGCATCAA	CGAGTGCTTC	AGTCTCAGCG	TCAACCAGTG	CCTCTGAATC	4860
CGCATCAACA	AGTGCCTCGG	CTTCAGCAAG	CACCAGTGCT	TCGGCTTCAG	CGTCAACGAG	4920
TGCGTCTGAG	TCAGCATCAA	CGAGTGCGTC	AGCCTCAGCA	AGCACATCAG	CTTCTGAATC	4980
TGCATCAACC	AGTGCGTCAG	CTTCCGCATC	AACAAGCGCC	TCGGCCTCAG	CAAGTACAAG	5040
TGCTTCAGCC	TCAGCATCAA	CCAGTGCATC	AGCTTCAGCC	TCAACAAGTG	CTTCAGCCTC	5100
AGCGTCAACC	AGTGCCTCGG	CTTCAGCAAG	TACCAGTGCG	TCAGCTTCAG	CAAGCACAAG	5160
TGCGTCAGCT	TCAGCATCAA	CCAGTGCTTC	GGCTTCGGCA	TCAACAAGTG	CCTCAGCATC	5220
AGCATCAACG	AGTGCGTCAG	CCTCAGCAAG	TACTAGTGCA	TCAGCATCAG	CATCAACCAG	5280

			2/8			
TGCATCAGCC	TCAGCAAGTA	TCTCAGCGTC	TGAATCGGCA	TCAACGAGTG	CATCAGCATC	534
AGCATCAACG	AGTGCATCGG	CTTCAGCGTC	AACCAGTGCA	TCAGTCTCAG	CAAGCACCAG	540
TGCGTCGGCT	TCAGCATCAA	CGAGTGCCTC	AGCCTCAGCA	AGTATCTCAG	CGTCTGAATC	546
GGCATCAACG	AGTGCGTCAG	CCTCAGCAAG	TACTAGTGCA	TCGGCTTCAG	CAAGCACCAG	5520
TGCGTCGGCT	TCAGCATCAA	CCAGTGCCTC	AGCCTCAGCA	AGTATCTCAG	CGTCTGAATC	5586
GGCATCAACG	AGTGCGTCAG	CCTCAGCAAG	TACTAGTGCA	TCAGCmTCAG	CATCAACGAG	564
TGCATCGGCT	TCAGCAAGTA	CCAGCGCCTC	AGCTTCAGCA	AGCACCAGTG	CGTCAGCCTC	570
AGCAAGTACC	AGCGCCTCAG	CCTCAGCAAG	CACCAGTGCC	TCAGCTTCAG	CAAGTACCAG	576
TGCGTCAGcT	CAGCATCAAC	AAGTGCTTCA	GCTTCGGCCT	CAACAAGTGC	GTCAGCTTCA	5820
GCATCAACGA	GTGCGTCGGC	TTCAGCAAGC	ACCAGTGCCT	CGGCCTCAGC	AAGCACCAGT	5880
GCTTCAGCTT	CAGCATCAAC	AAGTGCGTCA	GCTTCAGCAA	GTACATCAGT	TTCAAATTCA	5940
GCAAACCATT	CGAACTCACA	AGTTGGAAAT	ACTTCTGGAT	CGACAGGTAA	ATCCCAAAAA	6000
GAATTGCCTA	ATACAGGTAC	TGAGTCGTCA	ATTGGATCTG	TGTTACTTGG	AGTTCTAGCA	6060
GCTGTTACAG	GTATTGGATT	GGTTGCGAAA	CGCCGTAAAC	GTGATGAAGA	AGAGTAAGAC	6120
AACCTGTAAA	GTTAGGCTAA	ACTAACTCGC	GCACATAAAT	CAAGGAGAAA	ATTGCTAGTG	6180
GATGATAAAA	TAACAGTCAT	TGTACCAGTA	TACAATGTGG	AAAACTATCT	GAGGAAGTGC	6240
CTAGATAGTA	TTATTACTCA	AACATATAAA	AATATTGAGA	TTGTTGTCGT	TAATGATGGT	6300
TCTACGGATG	CTTCAGGTGA	aatttgtaaa	GAATTTTCAG	AAATGGATCA	CCGAATTCTC	6360
TATATAGAAC	AAGAAAATGC	TGGTCTTTCT	GCCGCACGAA	ACACCGGTCT	GAATAATATG	6420
TCCGGAAATT	ATGTGACCTT	TGTGGACTCG	GATGATTGGA	TTGAGCAAGA	TTATGTAGAA	6480
АСТСТАТАТА	AAAAAATAGT	AGAGTATCAG	GCTGATATTG	CAGTTGGTAA	ТТАТТАТТСТ	6540
ITCAACGAAA	GTGAAGGAAT	GTTCTACTTT	CATATATTGG	GAGACTCCTA	TTATGAGAAA	6600
GTATATGATA	ATGTTTCTAT	CTTTGAGAAC	TTGTATGAAA	CTCAAGAAAT	GAAGAGTTTT	6660
CCTTTGATAT	CTGCTTGGGG	TAAACTCTAT	AAGGCAAGAT	TGTTTGAGCA	GTTGCGCTTT	6720
GACATAGGTA	AATTAGGAGA	AGATGGTTAC	СТСААТСААА	AGGTATATTT	ATTATCAGAA	6780
AAGGTAATTT	ATTTAAATAA	AAGTCTTTAT	GCTTATCGGA	TTAGAAAAGG	TAGTTTATCA	6840
agagtttgga	CAGAAAAGTG	GATGCACGCT	TTAGTTGATG	CTATGTCTGA	ACGTATTACG	6900
CTACTAGCTA	ATATGGGTTA	TCCTCTAGAG	AAACACTTGG	CAGTTTATCG	TCAGATGTTG	6960
GAAGTCAGTC	TCGCCAACGG	TCAAGCTAGT	GGTTTATCTG	ACACAGCAAC	GTATAAAGAG	7020
PTTGAAATGA	AACAAAGGCT	TTTAAATCAG	CTATCGAGAC	AAGAGGAAAG	TGAAAAGAAA	7080

GCCATTGTC	C TCGCAGCAAA	CTATGGCTAT	GTAGACCAAG	TTTTAACGAC	AATCAAGTCT	7140
ATTTGTTAT	C ATAATCGTTC	GATTCGTTTT	TATCTGATTC	ATAGCGATTT	TCCAAATGAA	720
TGGATTAAG	С ААТТАААТАА	GCGCTTAGAG	AAGTTTGACT	CAGAAATTAT	TAATTGTCGG	726
GTAACTTCT	G AGCAAATTTC	ATGTTATAAA	TCGGATATTA	GTTACACAGT	CTTTTTACGC	7320
TATTTCATA	G CTGATTTCGT	GCAAGAAGAC	AAGGCCCTCT	ACTTGGACTG	TGATCTAGTT	7380
GTAACGAAA	A ATCTGGATGA	CTTGTTTGCT	ACAGACTTAC	AAGATTATCC	TTTGGCTGCT	7440
GTTAGAGAT	TTGGGGGCAG	AGCTTATTTT	GGTCAAGAAA	TCTTTAATGC	CGGTGTTCTC	7500
TTGGTAAAC	A ATGCTTTTTG	GAAAAAAGAG	AATATGACCC	AAAAATTAAT	TGATGTAACC	7560
AATGAATGG	CATGATAAGGT	GGATCAGGCA	GATCAGAGCA	TCTTGAATAT	GCTTTTTGAA	7620
CATAAATGG	i tggaattgga	CTTTGATTAT	AATCATATTG	TCATTCATAA	ACAGTTTGCT	7680
GATTATCAA	TGCCTGAGGG	TCAGGATTAT	CCTGCTATTA	TTCACTATCT	TTCTCATCGG	7740
AAACCGTGG	A AAGATTTGGC	GGCCCAAACC	TATCGTGAAG	TTTGGTGGTA	CTATCATGGG	7800
CTTGAATGG	A CAGAATTGGG	ACAAAACCAT	CATTTACATC	CATTACAAAG	ATCTCACATC	7860
ГАТССААТА	A AGGAACCTTT	CACTTGTCTA	ATCTATACTG	CCTCAGACCA	TATTGAACAA	7920
ATTGAGACA	T TGGTTCAATC	CTTGCCTGAT	ATTCAGTTTA	AGATAGCAGC	TAGAGTAATA	7980
GTTAGTGAT	C GATTGGCTCA	GATGACAATT	TATCCAAACG	TGACTATATT	TAACGGAATT	8040
CACTATTTG	G TAGATGTCGA	TAATGAATTG	GTAGAAACCA	GTCAAGTACT	TTTAGATATT	8100
AATCATGGC	G AAAAGACAGA	AGAAATTCTC	GATCAATTTG	CTAATCTTGG	CAAGCCTATC	8160
PTATCCTTT	AAAATACTAA	AACCTATGAA	GTAGGTCAGG	AGGCATATGC	TGTTGACCAA	8220
GTTCAAGCA/	A TGATTGAAAA	ATTGAGAGAA	ATAAGCAAAT	GAAGAAAAT	CATTTAGTAG	8280
GAGATGCTCT	r gattttgacg	GTTAGTGATC	AGATTGAAGA	GTTGGATTAT	TTTTTATAAA	8340
ATTTCTCCGT	TCATCATATA	TGAAAGTTGT	TCAAACATCA	GAGTGCTTTA	таалататаа	8400
ATAGACCTA	A AGATATTTAA	TATGAACTGC	ACCCCAAAAG	TTAGACAGAA	AAAATCTAAC	8460
PTTTTGGsG1	CAGTACAATA	TTAGGGTGTG	ATTAATTATC	TTTTTAGGTG	AAAATGATTC	8520
ATATTATA)	CTGTTTGATA	CGAAATTTAT	TATAAGGAAA	TTATGTTAAT	GAATACAAAA	8580
rctatagtt?	TTAATGCAGA	TAATGATTAT	GTAGATAAAT	TAGAAACTGC	AATTAAATCT	8640
ATTTGTTGTT	T ATAATAATTG	TTTAAAATTT	TATGTATTTA	ATGATGATAT	TGCGTCAGAG	8700
rggtttttg <i>i</i>	TGATGAATAA	GCGATTGAAG	ACTATACAAT	CTGAAATCGT	TAATGTAAAG	8760
ATTGTAGAT(	ATGTTCTTAA	AAAGTTTCAT	TTACCGTTAA	AGAATTTAAG	TTATGCCACT	8820

			580			
888	CCTAGATTCT	GTGCTTTATA	AAAGAAAGTC	TAATTTTGTC	ATTTTATACC	TTCTTTCGTT
8940	TGGTTATGCC	TAGAACTAGA	TTATTTGATA	TTTAGACTAT	TTACAGGAAG	GACATCATTG
9000	CTCCGGAATG	CCAATTTTAA	GTTCCTTCTA	TTTTGGTGAT	TAGAAGATTC	TTGGCAGCAG
9060	GTTAGAACTG	GTTCGAAACT	GAAGATGCTT	TTGGAGAGAT	ATGTAGATAC	TTATTAGTTA
9120	GTTATTCCAT	TTTTAAATAT	GATCAAGGAA	AGCATATGGA	ATCATGAAAC	ACCAATCAAT
9180	TAGCGTCGCA	TGGGGATGGA	AATTTTATGG	CCGAAATTTT	AAAGATTAGA	GATAGATGGA
9240	AGATTTACCT	TGAAAAATGG	ATTTCTGAGT	ATGGTATGAG	GAAATCATAA	CACATAGAAG
9300	TCGCTTTAGA	TTTCCAATAA	TGGGAAATAA	GGTAAAACCT	ATTATACTGG	AGTGTTATAC
9360	AAAAGACATT	TTTTATTGAG	TGGTCTGATA	TCTGTTAGAA	GGTTTTATAA	GAAGTTTGGT
9420	AATTTTTACA	CTCATACAGC	AGTCCTAAAG	ACTTGTATAC	GTTTCGAAGA	ATTAGTCGTA
9480	GGTACATTTT	ATTTACCAGA	TTGATAGAAA	TGTAGAATAT	AGATGGAGCA	GCTAGTTGTG
9540	ATATAGCAAT	CTTTATTAAG	AGTGTCGTTG	TTTTGCGTCT	CACATACATA	TCTATACTAG
9600	TAATTTAGAT	AAATTTTGGA	GATTATCGAA	TTCTCCATTT	ATCCTTGTTT	GTTACGATTT
9660	TGTTCAACAA	TTGTATCCGT	GTGGATAATA	TTATAAAGAA	ATATTAATCA	TTTTATTTAG
9720	TCAAACTAAT	ATATAGGCAA	ACTAGTCATG	CTTTGAAAAT	CAATTTTTAC	CTATCTAAAC
9780	TATAGGAGAA	TTAGACAATT	GTAGAGGCTA	AAACAAAATG	CAACCGAACC	ATATTTTCTT
9840	TTGAGAATTA.	ATCTACAACG	TGTAGTTCCA	TAATTAGTAT	GCAGACGAAC	TAAGTTTATG
9900	AGTGTTTATT	CAAAATTTTG	TCAGACGTAT	GCATTCAGAA	TGTTTGGATA	PTTGCGAATG
9960	TAGAGAAAGA	GAAGAATTTG	CAAAATATGT	ATCATTCATC	GGCTCTCCAG	AATCAATGAT
10020	GTAACCTAGG	TCATCAGCTC	CGGCGGTCTT	AGAAAGCAAA	AAATATTTTG	PTCTCGTTTC
10080	TGGTTGGAAC	CTCTGATGAT	CTTTTGTAGA	GCGTACATTA	TCGGGGGGG	PATTGAATGT
10140	ATTAGTATCG	AAACGCAGAT	TGAAAAAGGA	TATGGTGCTT	AGACCGATTA	ATGATGCTTT
10200	ACGGATCCAG	GACTTATGTT	ATGTGTATAT	GAAACACGCT	TTCTTATGAT	GGCGTTATAA
10260	GTCGAAGAAG	TAGGGAAGGT	CAATTATGGA	GAAGGTAAAG	AGAAGTGATA	ATGATTCTCT
10320	TTACTACAAG	CAAGAGAGAG	TGAAGTTATT	GTAGCTGTCT	GAACTGGACT	PCAGAAATGG
10380	AAGGTACTTC	CTGGACATGG	AGGATACTTA	AAAATTGCAG	TCCTATAGGA	ATTTACCATT
10440	GTTGGTTTAT	CTGGTACCGT	GTTGTGTTTA	TATTTGAATC	GAGGATAGTC	PAAGAGCTTC
10500	GGGGCTAGGG	TGATGAAATT	AGCGTATGTA	TGGAGTGAAA	ATCGAATACA	CTGATACTTT
10560	ATTTTGATTT	GACCAATCAT	ACTATGACTT	GCAAGTTCAG	AGCTATTTTA	<b>AAGAAAAG</b> AT
10620	CAGTTCACAG	ACAAAATATG	AATTAGAAGA	GTGATAGCAA	ATTACAAAGA	<b>АТАААААТА</b> G

AGATTTACAG	AAGAATGATG	GAAAAATTGT	CTTTACTTCC	GTAGATAGTA	ATAAAAAATG	10680
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GTTATCTTAG	CTCAAAATGC	TGTTCAAAAG	ATAGCTAGTC	AACTGGGATT	TAGAGAGGTT	10800
GGTATTTATT	TTTACAACAT	TGCTTCAGAT	AGTCCTTCTG	AAATGAATAA	GCGTCTGGAT	10860
GGTATTATGG	CCAGTATCTC	TATTGGGGAT	ATTTTAGTCT	TTCAGTCTCC	AACCTGGAAT	10920
GGTTTTGAAT	TTGATCGTCT	CTTGTTTGAT	AAGCTAAAGG	ATATGCAGGT	GAAAATTATT	10980
TGCTTTATCC	ATGATGTTGT	TCCCCTCATG	TTTGATAGTA	ACTATTATCT	CATGAAAGAT	11040
TATCTGTATA	TGTATAATCT	ATCAGATGTT	TTGATAGTGC	CGTCAGAGAG	AATGAAAACA	11100
CGCCTGATGG	AAGAAGGATT	GACGACTAAG	AAGATTCTTG	TTCAAGGGAT	GTGGGATCAT	11160
CCTCATGATT	TATCCTTATA	CACCCCTGCT	TTTAAAAAAG	AACTTTTTTT	TGCTGGAAGT	11220
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AATAAAGGGG	AAGCTAGTTC	TAGTGCTAGA	AGTCTCAGCA	TCGAAGGATG	GAAAAAAGAT	11340
GAGGAATTGT	TGCTAGAATT	ATCAAAGGGT	GGATTTGGCC	TTGTCTGGGG	AACCCATCAA	11400
AATGAGGGAG	AAAGTAACCA	ATACTATACC	TTGAATATAT	CTCATAAGGT	GAGTACCTAT	11460
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GATCAAGGCT	TGGGCTTTAT	GGCGGATAGT	CTGGAAGAGG	TTCATGAGAT	AGTTGATAAA	11580
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AGTGAGATTA	TCGATGTTAA	ACTACCTGAA	CAAACTGTGT	TTCAAGATTG	GGAAAAGCAA	11940
GATCACATTA	GTAGCATTAC	TTATGCTAGA	TATTTTATTG	CAGATTATAT	CCAAGAAGAT	12000
AAGGTTTTAT	ATTTAGACAG	TGATTTGATT	GTAAATACTT	CTTTAGAGAA	ATTATTTAGT	12060
ATTTGTTTAG	AAGAAAAATC	ACTCGCAGCA	GTTAAAGATA	CAGATGGAAT	TACATTTAAT	12120
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ATTGAACAGA	GCATTGTTAC	AATGAAGGAA	GTTGAAGAAG	GCCGTTTCGA	GCATTTTAAT	12240
GGTGATCAAA	CGATTTTTAA	TCAGGTCTTG	CAAGATGATT	GGTTAGAACT	AGGTCGAGCT	12300
TATAATTTAC	AAGTAGGGCA	TGATATTGTG	GCTTTGTATA	ACAATTGGCA	GGAACATCTG	12360

	•		582			
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TTGACAGCCA	ATCGTTATCG	TGATTTATGG	TGGGAATTCC	ATGATTTGGA	GTGGAGTCAG	12480
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TGCTTAACCT	TAACGAATTC	CCAAGATTTA	GAAGGAATAG	AAGAGCTAGT	TACAGCTCTA	12600
CCTGAGGTGG	TATTTCATAT	CGCAGCTTGG	ACGGATATGG	GAGATAAATT	ААААААТТА	12660
GCTGTATATA	ATAATGTGAG	ATTGCATCCA	CAAATTGTTC	CACCGGTCTT	AGATAAGCTG	12720
AAAAAGTCAA	CAAATCTATA	TTTGGATATC	AATCATGGTA	GTGCAGATGA	GAACTTTTTA	12780
AAATCTTTGC	AAGAACAAGA	AAAAACGCTA	CTAGCTTTTC	AATCGACTCA	GCACGGAGAG	12840
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GTTTTTCAAA	TTGCTGCTTG	GACAGCTATG	GGGCCAAAAT	TATATGATTT	GTCTAATCGT	13080
татсстаата	TTCAGCTCTA	TCCGGCAATT	TCTAGAGATA	AGCTAGACGA	GTTGAAGGAG	13140
AAGATGGATG	CTTATTTAGA	TATCAACCTA	CTGACTTCAA	CATCCGATAT	CGTTGCAGAA	13200
ATGGCTCATC	TATCTAAACC	TATACTAGCC	TTTTATAAAT	CTCAAAATGG	GAATAATGGC	13260
CAAAGGTTGT	ATTCAAGTGA	ACATCCTGAA	CGAATGTTGG	CTGATTTGCA	AAAATTGATA	13320
ACTAAGGATA	TGCTAGAAAA	ACCGCTTGAT	ATAATCCAGG	TGAAAGGGAT	AGATGAAACC	13380
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AGGGACATTA	TCGGCCAAGA	AAGTCGAGAA	GATTTAGTAG	TGTGCCTTCC	TGATGCTTTT	13560
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TATATGGATT	TTTACAGAGA	GTTATGCAGT	GATTCATGGT	ATGGCTCAAC	CTTTGTATCT	13680
CGCCCTTATA	TCGATTTTGA	AGACAAGAGT	CAAGCTAAAG	CTCAATTTGA	AAAATTGAAA	13740
AGCATTTGGG	AAAACCGTGA	CTTACTGATA	GTCGAAGGTG	CGACTTCTCG	TTCAGGTGTC	13800
GGAAATGATT	TATTCGATGA	GGCAAATTCT	ATTAAGCGAA	TTATCTGTCC	TTCTCATAGT	13860
GCCTTTTCTA	GAGTTCATGA	ACTTGAACAA	GAAATTGAAA	AGTATGCTGG	TGGTCGCTTG	13920
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CGTT <b>CTT</b> GCT	TTGGAGCAGG	AGTCGGCTTC	AATGCTGGTG	TTCTCTTGAT	TAACAACAAA	14640
AAATGGGGAT	CTGAAACTAT	TCGACAAAAA	TTGATTGACT	TAACAGAAAA	AGAACATGAG	14700
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AGTCTGTATT	GTATCACAAT	AGAGATGTTG	ATTTTTATAT	TCTCAACAGT	GATATAGCTC	15540
CTGAATGGTT	TAAATTATTG	GGGAGAAAA	TGGAAGTTGT	GAATTCTACA	ATTCGCAGTG	15600
TACACATTGA	TAAAGAACTT	TTTGAAAGCT	ATAAAACAGG	ACCTCATATA	AATTATGCTT	15660
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CCGATATCAT	TGTAACTGGG	GAACTAGCTA	CTTTGTTTGA	GATAGATCTC	AAAGGATATT	15780
CAATTGGTGC	TGTTGATGAT	GTCTATGCCT	ATGAAGGACG	AAAATCTGGA	тттаатастс	15840
GTATGTTACT	AATGGATGTT	GCAAAGTGGA	AAGAACATTC	TATTGTCAAT	AGTTT <b>ATT</b> GG	15900

584 AATTAGCGGC CGAGCAGAAT CAAGTTGTTC ATCTTGGGGA TCAGAGTATT TTAAATATTT 15960 ATTTTGAGGA TAATTGGCTA GCCTTAGATA AAACATATAA TTATATGGTG GGTATTGATA 16020 TTTATCACCT TGCTCAAGAA TGTGAACGTC TAGATGACAA TCCACCTACA ATTGTTCACT 16080 ATGCTAGTCA TGATAAACCT TGGAATACAT ATAGTATATC TAGACTACGT GAATTATGGT 16140 GGGTTTATAG AGATTTGGAT TGGTCAGAGA TTGCTTTTCA ACGTTCCGAT TTAAATTATT 16200 TTGAAAGAAG CAATCAGTCT AAAAAACAAG TGATGCTTGT GACATGGAGT GCAGATATAA 16260 AACATTTAGA GTATTTAGTA CAACGGTTAC CTGATTGGCA TTTTCATTTG GCTGCACCGT 16320 GTGATTGTTC TGAGGAGCTG ACCTCTCTAT CACAGTATAC GAATGTAACA GTATATCAAA 16380 ATGTATTACA TAGTAGAATT GATTGGCTAT TGGACGATTC TATAGTTTAT TTAGATATTA 16440 ATACAGGTGG AGAGGTTTTT AATGTAGTTA CAAGGGCACA AGAAAGTGGC AAGAAAATCT 16500 TCGCTTTTGA TATCACACGT AAAAGTATGG ATGATGGACT CTATGACGGT ATTTTTTCTG 16560 TGGAGAGACC AGATGATTTA GTGGATAGAA TGAAGAATAT AGAGATAGAG TAATGAGTGA 16620 ATTAATTAGT GTTGTGGTAC CGATATACAA TACGGGAAAA TATTTAGTGG AGTGTGTCGA 16680 GCATATTCTG AAGCAAACCT ATCAAAATAT AGAAATTATT TTAGTTGATG ACGGTTCTAC 16740 GGATAATTCT GGGGAAATTT GTGATGCTTT TATGATGCAA GATAATCGTG TGCGAGTATT 16800 GCATCAAGAA AATAAGGGGG GGGCAGCACA AGCTAAAAAT ATGGGGATTA GTGTAGCTAA 16860 GGGAGAGTAC ATCACGATTG TTGATTCAGA TGATATCGTA AAAGAAAATA TGATTGAAAC 16920 TCTTTATCAG CAAGTCCAAG AAAAGGATGC AGATGTTGTT ATAGGGAATT ACTATAATTA 16980 TGACGAAAGT GACGGGAATT TTTATTTTTA TGTAACAGGG CAAGATTTTT GCGTCGAAGA 17040 ATTAGCTATA CAAGAAATTA TGAACCGTCA AGCAGGAGAT TGGAAATTCA ATAGCTCGGC 17100 CTTTATATTG CCGACATTTA AGTTGATTAA AAAAGAATTA TTCAATGAAG TTCACTTTTC 17160 AAATGGTCGC CGCTTTGATG ATGAAGCAAC TATGCATCGC TTTTATCTTT TAGCCTCTAA 17220 AATCGTCTTT ATAAACGATA ATCTCTATCT GTATAGAAGA CGTTCAGGAA GCATCATGAG 17280 AACGGAATTT GATCTTTCCT GGGCAAGAGA TATTGTTGAA GTGTTTTCTA AGAAAATATC 17340 GGATTGTGTC TTGGCTGGTT TGGATGTCTC CGTTCTGCGT ATTCGATTTG TCAATCTTTT 17400 AAAAGATTAT AAGCAAACTT TAGAATACCA TCAATTAACA GATACTGAGG AATATAAAGA 17460 TATTTGTTTC AGATTAAAGT TGTTTTTTGA TGCAGAACAA AGAAATGGTA AAAGTTGAAA 17520 TAAAAGAATT GTTATTTACC ATATCACAAA CAATGAAGGT GAGGGGAGTG TTTTATGACT 17580 AAGATTTATT CGTCAATAGC AGTAAAAAAA GGACTATTTA CCTCATTTCT ACTGTTTATC 17640 TATGTATTGG GAAGTCGTAT TATTCTCCCT TTTGTTGACC TAAATACTAA AGATTTTTTA 17700

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CCTTTGATTT	AGGAGACTTT	TATGTATTAT	TTTATTCCAG	CTTGGTATGG	GTCAGAAAGA	18840
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GG/	ATGAGCTA	GAGGGAAAAG	TAAAGGATAC	GATCACTCAC	TATCTTGATT	ATTTAGGCTT	21420
TG/	ATCATAAG	GATTTGATTT	TATCAGGTCT	TTCTATGGGA	ACGTTTCCGG	CTCTCTATTA	21480
TG	STGCTTCT	TTTGAACCCC	ATGCCATCAT	ACTTGGTAAG	CCCTTGGCTA	ATTTAGGAAC	21540
TAT	PAGCTAGT	CGTGGACGTT	TGGACGCACC	GGGTGTCTCT	AACTTAGCTT	TTGATTGTTT	21600
AA?	PTCATCAT	ACAGGTGGGA	CAAGTTCTCA	AGATATGACG	GAGTTGGATC	AGCGTTTTTG	21660
GA.	·AATTTTT	AAACAAGCAA	ATTTTTCAAA	GACAACCTTT	GGTTTATCCT	ATATGAAAGA	21720
TGI	<b>AAGAAATG</b>	GATCCACAAG	CCTATGAACA	ATTAGTGTCT	TATCTGTGTA	ATACAGGTGC	21780
GA	AGATTTTA	TCTAAAGGAA	CTGCTGGACG	ACACAATGAT	GATACAGATA	CCAATATTTC	21840
TTC	GTTTTTG	CACTTTTATA	GAATGGTCTT	AGAGACTGGT	TTTGGAAGGG	AGAAAAGATG	21900
ATI	PATTACAC	AGAGACAGTC	TATTCATTGG	GGAGAAGTTG	GTGGGACTTA	TATGTATGGA	21960
AC#	<b>ACTGTAT</b>	CTTATTACCC	TGACAAAAGT	GTTCGTCTGT	ATAATCCTCT	ATTGCCATCT	22020
GG7	rgagattc	TAAAGACTTG	GTTTTCTAGT	GTCAATTACC	AGGCTGCACG	AACCCAACCT	22080
CAC	SCTTCCCT	TATTAAAAAG	AAAGCAGGAG	TATCAACTAT	CACTGGTTTT	TGACTGTCAG	22140
CCI	rgaaaatg	GAGTTTATAC	CAAGATAACT	TTTTTTGACC	GCTATGGTGA	TATTTTAGAA	22200
A.A.	AAAGGTAG	AAAAAGTGAA	AGATTTCATA	TTTACTTATC	CAGAAGATAG	TTATACTTAT	22260
CGZ	AGTTTCTC	TTTTAAGTGC	TGGATTTGAG	TCCTTAACTT	TTTATCATTT	TTCTATCAAG	22320
GAC	GATCAGAA	GTGTTTAGAC	GTTTAGGTCA	AGATTTCCAG	CTTAGGAAAG	TGAAAAAGAT	22380
ניניו	PAAAGCAG	ATTAATGCCC	TGAAAGGCAA	GATGTCCTCT	CTTTCGGATC	AAGAATTAGT	22440
AGC	TAAAACA	GTAGAGTTTC	GTCAGCGTCT	TTCCGAGGGA	GAAAGTCTAG	ACGATATTTT	22500
GG1	PTGAAGCT	TTTGCTGTGG	TGCGTGAAGC	AGATAAGCGG	ATTTTAGGGA	TGTTTCCTTA	22560
rg <i>i</i>	TGTTCAA	GTCATGGGAG	CTATTGTCAT	GCACTATGGA	AATGTTGCTG	AGATGAATAC	22620
GGC	GGAAGGT	AAGACCTTGA	CAGCTACCAT	GCCTGTCTAT	TTGAACGCTT	TTTCAGGAGA	22680
AGG	SAGTGATG	GTTGTGACTC	CTAATGAGTA	TTTATCAAAG	CGTGATGCCG	AGGAAATGGG	22740
rc <i>a</i>	AGTTTAT	CGTTTTCTAG	GATTGACCAT	TGGTGTACCA	TTTACGGAAG	ATCCAAAGAA	22800
3GA	GATGAAA	GCTGAAGAAA	AGAAGCTTAT	CTATGCTTCG	GATATCATCT	ACACAÁCCAA	22860
PAG	TAATTTA	GGTTTTGATT	ATCTAAATGA	TAACCTAGCC	TCGAATGAAG	AAGGTAAGTT	22920
halai	TACGACCG	ттаастатс	ጥርልጥተልተጥርል	ጥርልልልጥጥርልጥ	САТАТСТТСС	ጥጥርልጥልርጥርር	22980

			588			
ACAAACTCCT	CTGATTATTG	CGGGTTCTCC	TCGTGTTCAG	TCTAATTACT	ATGCGATCAT	2304
TGATACACTT	GTAACAACCT	TGGTCGAAGG	AGAGGATTAT	ATCTTTAAAG	AGGAGAAAGA	2310
GGAGGTTTGG	CTCACTACTA	AGGGGGCCAA	GTCTGCTGAG	AATTTCCTAG	GGATTGATAA	2316
TTTATACAAG	GAAGAGCATG	CGTCTTTTGC	TCGTCATTTG	GTTTATGCGA	TTCGAGCTCA	2322
TAAGCTCTTT	ACTAAAGATA	AGGACTATAT	CATTCGTGGA	AATGAGATGG	TACTGGTTGA	2328
TAAGGGAACA	GGGCGTCTAA	TGGAAATGAC	TAAACTTCAA	GGAGGTCTCC	ATCAGGCTAT	2334
TGAAGCCAAG	GAACATGTCA	AATTATCTCC	TGAGACGCGG	GCTATGGCCT	CGATCACCTA	2340
TCAGAGTCTT	TTTAAGATGT	TTAATAAGAT	ATCTGGTATG	ACAGGGACAG	GTAAGGTCGC	2346
GGAAAAAGAG	TTTATTGAAA	CTTACAATAT	GTCTGTAGTA	CGCATTCCAA	CCAATCGTCC	23520
GAGACAACGG	ATTGACTATC	CAGATAATCT	ATATATCACT	TTACCTGAAA	AAGTGTATGC	2358
ATCCTTGGAG	TACATCAAGC	AATACCATGC	TAAGGGAAAT	CCTTTACTCG	TTTTTGTAGG	23640
CTCAGTTGAA	ATGTCTCAAC	TCTATTCGTC	TCTCTTGTTT	CGTGAAGGGA	TTGCCCATAA	2370
TGTCCTAAAT	GCTAATAATG	CGGCGCGTGA	GGCTCAGATT	ATCTCCGAGT	CAGGTCAGAT	23760
GGGGGCTGTG	ACAGTGGCTA	CCTCTATGGC	AGGACGTGGT	ACGGATATCA	AGCTTGGTAA	23820
AGGAGTCGCA	GAGCTTGGGG	GCTTGATTGT	TATTGGGACT	GAGCGGATGG	AAAGTCAGCG	23880
GATCGACCTA	CAAATTCGTG	GCCGTTCTGG	TCGTCAGGGA	GATCCTGGTA	TGAGTAAATT	23940
ITTTGTATCC	TTAGAGGATG	ATGTTATCAA	GAAATTTGGT	CCATCTTGGG	TGCATAAAAA	24000
GTACAAAGAC	TATCAGGTTC	AAGATATGAC	TCAACCGGAA	GTATTGAAAG	GTCGTAAATA	24060
CCGGAAACTA	GTCGAAAAGG	CTCAGCATGC	CAGTGATAGT	GCTGGACGTT	CAGCACGTCG	24120
<b>PCAGACTCTG</b>	GAGTATGCTG	AAAGTATGAA	TATACAACGG	GATATAGTCT	ATAAAGAGAG	24180
AAATCGTCTA	ATAGATGGTT	CTCGTGACTT	AGAGGATGTT	GTTGTGGATA	TCATTGAGAG	24240
ATATACAGAA	GAGGTAGCGG	CTGATCACTA	TGCTAGTCGT	GAATTATTGT	TTCACTTTAT	24300
PGTGACCAAT	ATTAGTTTTC	ATGTTAAAGA	GGTTCCAGAT	TATATAGATG	TAACTGACAA	24360
AACTGCAGTT	CGTAGCTTTA	TGAAGCAGGT	GATTGATAAA	GAACTTTCTG	AAAAGAAAGA	24420
ATTACTTAAT	CAACATGACT	TATATGAACA	GTTTTTACGA	CTTTCACTGC	TTAAAGCCAT	24480
<b>PGATGACAAC</b>	TGGGTAGAGC	AGGTAGACTA	TCTACAACAG	CTATCCATGG	CTATCGGTGG	24540
CAATCTGCT	AGTCAGAAAA	ATCCAATCGT	AGAGTACTAT	CAAGAAGCCT	ACGCGGGCTT	24600
rgaagctatg	AAAGAACAGA	TTCATGCGGA	TATGGTGCGT	AATCTCCTGA	TGGGGCTGGT	24660
rgaggtcact	CCAAAAGGTG	AAATCGTGAC	TCATTTTCCA	TAAAAGGAGA	AAATATGACA	24720
ATTTACAATA	TAAATTTAGG	AATTGGTTGG	GCTAGTAGCG	GTGTTGAATA	CGCTCAAGCC	24780

TATCGTGCTG	GTGTTTTTCG	GAAATTAAAT	CTGTCCTCTA	ACTITATCIT	TACAGATATG	24840
ATTTTAGCCG	ATAATATTCA	GCACTTAACA	GCCAATATTG	GTTTTGATGA	TAATCAGGTT	24900
ATCTGGCTTT	ATAATCATTT	CACAGATATC	AAAATTGCAC	CTACTAGCGT	GACAGTGGAT	24960
GATGTCTTGG	CTTACTTTGG	TGGTGAAGAA	AGTCACAGAG	AAAAAAATGG	CAAGGTTTTA	25020
CGTGTATTCT	TTTTTGACCA	AGATAAGTTT	GTAACCTGTT	ATTTGGTTGA	TGAGAACAAG	25080
GACTTGGTTC	AACATGCCGA	GTATGTTTTT	AAGGGAAACC	TGATTCGGAA	GGATTACTTT.	25140
TCTTATACGC	GTTATTGTAG	CGAGTATTTT	GCTCCCAAGG	ACAATGTTGC	AGTCTTATAC	25200
CAACGAACTT	TTTATAATGA	AGACGGGACT	CCAGTCTATG	ATATCTTGAT	GAATCAAGGG	25260
AAGGAAGAAG	TTTATCATTT	CAAGGATAAG	ATTTTCTATG	GAAAGCAAGC	TTTTGTGCGT	25320
GCCTTTATGA	AATCTTTGAA	TTTGAATAAG	TCTGATTTGG	TCATTCTCGA	TAGGGAGACA	25380
GGTATTGGAC	AGGTTGTGTT	TGAGGAAGCA	CAGACAGCAC	ATCTAGCGGT	AGTTGTTCAT	25440
GCGGAGCATT	ATAGTGAAAA	TGCTACAAAT	GAGGACTATA	TCCTTTGGAA	TAACTATTAT	25500
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AATGAAGTTC	TACAAGAGCA	ATTTGCCAAA	TATACTCAGC	ATCAGCCAAA	GATTGTTACC	25620
ATTCCTGTAG	GCAGTATTGA	TTCCTTGACA	GATTCAAGTC	AAGGCCCAA	ACCATTTTCA	25680
TTGATTACGG	CTTCACGTCT	TGCCAAAGAA	AAGCACATTG	ATTGGCTTGT	GAAAGCTGTG	25740
ATTGAAGCTC	ATAAGGAGTT	ACCGGAACTA	ACCTTTGATA	TCTATGGTAG	TGGTGGAGAA	25800
GATTCTCTGC	TTAGAGAAAT	TATTGCAAAT	CATCAGGCAG	AGGACTATAT	CCAACTCAAG	25860
GGGCATGCGG	AACTTTCGCA	GATTTATAGC	CAGTATGAGG	TCTACTTAAC	GGCTTCTACC	25920
AGCGAAGGAT	TTGGTCTGAC	CTTGATGGAA	GCTATTGGTT	CAGGTCTACC	TCTAATTGGT	25980
TTTGATGTGC	CTTATGGTAA	TCAGACCTTT	ATAGAGGATG	GGCAAAATGG	TTATTTGATT	26040
CCAAGTTCAT	CTGACCATGT	AGAAGACCAA	ATCAAGCAAG	CTTATGCCGC	TAAGATTTGT	26100
CAATTGTATC	AAGAAAATCG	TTTGGAAGCT	ATGCGTGCCT	ATTCTTACCA	AATTGCAGAA	26160
GGCTTCTTGA	CCAAAGAAAT	TTTAGAAAAG	TGGAAGAAAA	CAGTAGAGGA	GGTGCTCCAT	26220
GATTGAACTT	TATGATAGTT	ACAGTCAAGA	AAGTCGAGAT	TTACATGAAA	GTCTAGGCGC	26280
TACTGGTCTT	TCTCAACTTG	GAGTGGTCAT	CGATGCAGAT	GGTTTTCTGC	CTGATGGTCT	26340
GCTTTCTCCT	TTTACCTATT	ATCTAGGTTA	CGAGGATGGA	AAACCTCTCT	ATTTTAATCA	26400
AGTTCCCGTT	TCAGATTTTT	GGGAAATTTT	AGGAGATAAT	CAGTCTGCTT	GTATTGAAGA	26460
TGTGACGCAG	GAGAGGGCTG	TCATTCATTA	TGCTGATGGA	ATGCAGGCTC	GCTTGGTTAA	26520

<b>АСАССТАСАС</b>	TCCAAACACC	TAGAAGGTCG	590 ACTACCTOAC	COMPC & CC & COT	እ <i>ሮ</i> እ አጥር ርርጥጥ	26580
		CGACTTATAG				26640
CCAAGATGTC	AATGGTCAAC	AAGTTTTACT	GGAAAACCAT	GTGACGGGTG	ATATCTTATT	26700
GACTTTGCCA	GGTCAGTCCA	TGCGTTACTT	TGCAAATAAA	GTTGAATTTA	TCACCTTCTT	26760
TTTGCAAGAT	TTGGAAATAG	ATACCAGTCA	GCTTATCTTT	AATACTCTAG	CGACTCCTTT	26820
CTTGGTTTCC	TTCCATCATC	CAGATAAATC	TGGCTCGGAT	GTCTTGGTAT	GGCAGGAACC	26880
TCTCTATGAT	GCCATTCCAG	GTAATATGCA	GTTGATTTTG	GAAAGTGATA	ATGTGCGTAC	26940
TAAGAAGATC	ATCATTCCAA	ATAAGGCGAC	TTATGAGCGC	GCTTTAGAGT	TAACTGACGA	27000
GAAATACCAT	GATCAGTTTG	TGCACTTGGG	TTATCATTAC	CAGTTCAAAC	GTGATAATTT	27060
CCTAAGACGA	GATGCCTTAA	TCTTGACCAA	TTCAGATCAG	ATTGAGCAAG	TAGAAGCAAT	27120
CGCAGGAGCC	TTGCCTGATG	TCACTTTCCG	TATTGCAGCG	GTGACAGAGA	TGTCTTCTAA	27180
GCTCTTAGAC	ATGCTTTGCT	ATCCTAATGT	GGCCCTTTAC	CAGAACGCTA	GTCCACAGAA	27240
GATTCAGGAG	CTGTATCAAC	TGTCGGATAT	TTACTTGGAT	ATAAACCACA	GTAATGAGTT	27300
GCTACAGGCA	GTGCGTCAGG	CCTTTGAGCA	CAATCTCTTG	ATTCTTGGCT	TTAATCAGAC	27360
GGTGCACAAT	AGACTTTATA	TCGCTCCAGA	CCATCTATTT	GAAAGTAGTG	AAGTTGCTGC	27420
TTTGGTTGAG	ACCATTAAAT	TGGCCCTTTC	AGATGTTGAT	CAAATGCGTC	AGGCACTTGG	27480
CAAACAAGGC	CAACATGCAA	ATTATGTTGA	CTTGGTGAGA	TATCAGGAAA	CCATGCAAAC	27540
TGTTTTAGGA	GGCTAACATG	TCAGAGGAAG	ATTTATTTA	CAAAGACGTT	GAAGGCCGCA	27600
TGGAAGAGTT	GAAACAAAAA	CCCATCAAGA	AGGAAAAAGA	AACCCGAGGG	GAAAAGATTA	27660
GTAAGACTTT	TTCACTTTTA	CTGGGTTTGA	TGATTCTGAT	TGGTTTGCTC	TTTACTTTGC	27720
TGGGAATTTT	GAGGTAGATC	TATGATTGAA	ATACTAATTG	TTTTAGCTAT	TATCCTATCT	27780
CTTGCTTTGA	TTGTATTGGT	AACTATACAA	CCCCGTCAAA	ATCAACTATT	TTCCATGGAT	27840
GCCACTAGTA	ATATTGGTAA	ACCAAGCTAC	TGGCAGAGCA	ACACCTTGGT	CAAGGTGCTC	27900
ACTTTATTGG	TGAGTTTGGC	TTTATTTATT	CTACTATTAA	CCTTTATGGT	GATTACTTAT	27960
AAATAAAAGA	AAACTTCAGA	TATTCACCTT	TTGTGGATTG	GTCTGAAGTT	TTCTTTTTTA	28020
TACTCAATGA	AAATCAAAGA	GCAAACTAGG	AAGCTAGCCG	CAGGCTgCTC	AAAACACCGT	28080
TTTGAGGTTG	TAGATATAAC	TGACGAAGTC	AGCTCAAAAC	ACCGTTTTGA	GGTTGTAGAT	28140
ATAACTGACG	AAGTCAGCTC	AAAACACCGT	TTTGAGGTTG	TGGATAGAAC	TGACGAAGTC	28200
AGCTCAAAAC	ACCGTTTTGA	GGTTGTGGAT	AGAACTGACG	AAGTCAGCTC	AAAACACCGT	28260
TTTGAGGTTG	TGGATAGAAC	TGACGAAGTC	AGCTCAAAAC	ACCGTTTTGA	GGTTGTGGAT	28320

AGAACTGACG	AAGctCAGTA	ACATATATAC	AGCAAGGCGA	CGCTGACGTG	GTTTGAAGAG	28380
TATTACTGTC	TATATTTTG	GTAAAAATCA	ACTTTTACTT	GGATGAAGGT	TTTGGCTTCA	28440
CGTAGGAGTT	GAAGAAGGGT	GCCGCGGGTT	TCAAATTCTT	CTCTTGTCTT	GGGCAGACTG	28500
CGGTTCCGGA	AGACTTCCAG	ATAACGTTCA	ATTTCATCTA	GCAAATCAGA	AGCAGGATTG	28560
GTCTGGCTCA	GTTGACCTGC	AATTTTTGAA	AAGAGTTGCG	CTAAGATCAG	GCTTTCACTG	28620
GCGGCAAGGT	GACAAGTGTT	AATCTGTTGG	GCCATGTTTC	TCAGGATACG	ACTITICTCCC	28680
TGTCTCATCT	CAAAGTAGTG	GATATGGTAG	TCTGTCTGGT	GAAAGAGGTG	GTCAGAGTGA	28740
TCCAAATAGA	CCAGTCTGAG	GGCTTCTTTC	AAAAGCGTGT	CTAATTCTGC	TACCAGCTGT	28800
GCTCGGTTGC	GTCCGTCTCC	TCTGGATAAA	TAGTATTTGA	AGCGCTGGAG	GATATCTTTT	28860
AACTTTTCTT	CCACCAGCGT	GTGGTAGTGC	TGGATTTCCT	CTTCTCGTGA	AGGCATATAG	28920
AGATTAACAA	GCAAGGCAAA	TCCTGTACCA	ATAGCAAAGA	GAAGGAATTC	ATTGACTAGA	28980
AGGTCTGGAG	AGGTTGACTC	TTGAACCAAG	AGATGGCTAA	CCAAAACAGT	GCTTGGTGTG	29040
ATGCCAATTT	CCCAGCCCAT	CTTGTAGGCT	AAAGGAACGT	AGAAGGCCAG	ATAGAGGCCG	29100
AGACTCCAGA	TATGAAATCC	GCTCAAGTGA	AAAGCTAGAA	CACCGATAGC	CAGAGCTAGA	29160
AGCATAGAAA	AAAGACGATT	GCGAGCCAGT	TTTAAAGTAC	TTCTACGCGT	ATCAGATAGG	29220
CTCAAGAGAG	CGATAATTCC	AGCCGAAACT	GCTGACGAAA	GATTGAGAAA	ATAAGCAAGC	29280
AGGCAGGCAA	GACAGGTAGC	TAAGATGAGC	TTGGTCGTAC	GTTGGCTAAT	AGACATAAGA	29340
ATTTCCTAAT	AAGTTAGAAT	AAAAGCGTAA	AAGACAAGAC	ATGAGCAGGC	TTGCCTTGAT	29400
GAGTTATTTT	TTACGGGTTG	CTGCGTATTC	GGCAACGGCG	GTAAAGAGGA	CATCTGTAGA	29460
AGAGTTAAGG	GCTGTTTCAC	ATGAGTCTTG	GATGACACCA	ATCACAAAAC	CAACCCCAAC	29520
AATTTGTATG	GCAATATCGT	TAGAAATACC	GAAAAGGCTA	CAAGCAACTG	GGATAAGAAG	29580
GAGGGAACCT	CCGGCAATAC	CTGAAGCATC	ACAGGATGAG	ATAGCTGCTA	CCACACTGAG	29640
GACAAAGGCT	GTGGCAAAGT	CAACAGGAAT	TCCAAGAGTG	TTAACTGCAG	CAAGGGTCAA	29700
AAGGTTAATG	GTAATCGCTA	CTCCAGCCAT	ATTGATAGTA	GAACCGAGTG	GGATAGAAAC	29760
AGAATAGGTA	TCTGGGTTGA	GTCCAAGGTC	ATGGCAGAGT	TTCATGTTGA	CAGGAATGTT	29820
AGTCGCAGAA	CTACGAGTGA	AAAAGGCTGT	CACACCGCTG	ACACGGAGGC	AGTTCCAAAC	29880
TAGAGGGTAA	GGATTGCGTC	TCATAAAGAA	GAAGGCAATC	AAAGGGTTGA	CCACAGGGGC	29940
AACAAAAAGC	ATAGTCGTTA	CTAATAGAAC	CAATAAAATA	CCGTAGTTGG	CAAGGCTTCC	- 30000
GACTCCCTTG	TCAGAAATGG	TTTTAAAAAC	AAGACCAAGG	ATTCCAAATG	GAGCCAGATT	30060

592 GATGATCCAT TCGACAATTT TAGAAGTCAC GTCAGCGATA GTTTTTAGCA ATTCTTGACT 30120 ATTTTTACTG GCTTCTCTA TAGCGATTCC AAAAATGACT GCCCAAGATA AGATTCTAAT 30180 ATAGTTAGCA GTAAGCAGGG CGTTGACTGG GTTGTCAACC AGTTTGAGCA AGAGGTTGCT 30240 GAGAACCTGC CCAATCCCAT CTGGTGGTGC AATTTCAGTA TTGGCACTAT TTGGGGTAAT 30300 TTCAATAGGG ACGATGAAAT TTGCTAGTAC AGCTACAAGA GCAGCGGCGA AAGTCCCTAT 30360 CATAGGATAT ACAAGAAAAC AACAGTTTTC ATATTGCTAT CTTGTCCCTT TTGATGTTGG 30420 GAAAGGCAT TGGCAACGAG AGCAAAGACT AGGATAGGAG CAACAGCTTT TAGACCTCCA 30480 ACGAATAAAT CCTCGAGTAG CCCAATCCCT GAGAGATTAG GAAGGGTCAG TCCTAGGATT 30540 CCCCACAAAG CATACCAATC AAGATACGCT TGACAAGGCT TGCCTTATTC CAAGCATGAA 30600 TGATTCTTTT CATAATAATC TCCTTTTTGT GTAGTGATTA TGATTATAGT ATAAATGATA 30660 GACAAAATCA AGAATTTTCT GTCTATTTTT TGAATATTTA TGGAGAATGA GACTGATGAA 30720 AATATGGTAT AATGAAATAA AGGAGTTITA TATGCAAAAA TTTATTCAGG CTTATATTGA 30780 AAAGCTAGAT GTGACAACCA TTATCGAGAA TATTCTAACC AAGGTCATTT CTCTTTTACT 30840 GCTTTTAATT GTATTTTATA TTGCTAAAAA AATGCTTCAT ACCATGGTGC AGAGAATTGT 30900 CAAACCTTCT CTAAAAATGT CTCGTCATGA TGTTGGACGC CAAAAAACCA TCTCACGTTT 30960 ACTAGAAAAT GTGTTTAATT ATACGCTATA TTTCTTTTTA CTCTACTGCA TTTTGTCGAT 31020 TTTAGGTTTG CCAGTTTCTA GTTTGCTGGC TGGAGCTGGT ATTGCTGGGG TAGCGATTGG 31080 TATGGGAGCC CAAGGCTTTC TGTCTGATGT CATCAATGGC TTTTTCATCC TCTTTGAACG 31140 TCAACTGGAT GTGGGAGATG AGGTCGTTCT GACAAATGGA CCGATTACTG TATCGGGTAA 31200 GGTTGTCAGT GTGGGAATTC GTACGACACA GCTTCGTAGC GAGGAGCAAG CCCTTCACTT 31260 TGTCCCTAAC CGAAATATCA CAGTTGTTAG CAATTTCTCA CGCACAGACT AGACCTGTTA 31320 TTTTAAGTAA TTTGTGGTAC AATAGAGGGA GTTTAATAAG GAGAAAAGAT GGTTTTAGAA 31380 AAGCAGTTGG GCAATGGTTG TACCTGGATA GACCTAGACC TAGGAAAGTT GAATAAACTA 31440 GAAGACCTTT CTGAAATTTA CGGTTTGGAC AAGGAAACCA TTGAATACGC ACTGGATAGA 31500 AACGAGCGCG CCCACATGGA CTACCACCGT GAAAGTGAGA CGGTTACCTT TATCTATAAT 31560 GTCTTAGACG TAAAAAAGGA CAAGGCCTAC TATGAGACTT TTCCCATGAC CTTTATTGTC 31620 GAGCATCGTC GCCTGATTAC CATTAGTAAT ACCAAGAACG CCTATGTCAT TGAACAGATG 31680 ACTCGTTATC TGGAGAACCA TGACACGCTT TCGATTTATA AGTTTCTCTT TGCCAGTCTG 31740 GAAATCATCA GCAATGCCTA CTATCCTGTC ATTGAGCAGA TGGACAAGAG TAGGGATGAG 31800 GTCAATGACC TCTTGCGCCA GCGAACTACC AAGAAAAACC TCTTTGTCCT GTCTGATTTG 31860

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GAGACTGGTA	TGGTTTATCT	GACGGCAGCT	GCCAAACAAA	ATCGGATTTT	GTTAGAGCAT	31920
ATTCAAGGTC	ATGCCTTGTA	TCGTAGTTTT	GATGAGATTG	AGAGAGAACA	GTTTGATGAT	31980
GCCATGATTG	AGGCTCATCA	GCTGGTATCC	ATGACAGACC	ТААТСТСТСА	GATTTTACAG	32040
CAGCTTTCAG	CCTCTTACAA	CAATATTCTA	AACAATAATC	TGAATGACAA	TTTGACAACC	32100
TTGACTATCA	TTTCAGTCTT	GCTAGCTGTT	TTGGCAGTCG	TGACAGGCTT	TTTCGGAATG	32160
AATGTTCCCT	TACCTTTAAC	AGATGAGCCC	CATGCTTGGC	TCTATATCAG	TTTGGCTAGT	32220
GCAGGTTTGT	GGATTGTTTT	ATCCTTGTTA	CTAAGGAAAA	TTGCGAAAAA	AAGTTAAGAA	32280
AAGGAGCCAG	AATGGCGATT	GAAAATTATA	TACCAGATTT	TGCTGTGGAA	GCAGTCTATG	32340
ATCTGACAGT	CCCAAGCCTG	CAGGCGCAGG	GAATAAAGGC	TGTTTTGGTC	GATTTGGATA	32400
ATACCCTCAT	TGCTTGGAAC	AACCCTGATG	GAACGCCAGA	GATGAAGCAA	TGGCTACATG	32460
ACCTTCGGGA	CGCGGGTATT	GGCATTATCG	TAGTGTCAAA	TAACACCAAA	AAACGCGTTC	32520
AACGAGCAGT	TGAGAAATTT	GGGATTGATT	ACGTTTACTG	GGCCTTGAAG	CCCTTCACAT	32580
TTGGTATTGA	CCGTGCTATG	AAGGAATTCC	ACTATGACAA	AAAGGAAGTG	GTCATGGTTG	32640
GTGACCAACT	CATGACAGAT	ATACGAGCAG	CCCACCGTGC	AGGGATTCGG	TCAATTTTAG	32700
TCAAACCCTT	GGTCCAACAT	GACTCAATCA	AAACGCAGAT	TAACCGAACT	CGTGAGCGTC	32760
GTGTTATG						32768

## (2) INFORMATION FOR SEQ ID NO: 72:

# (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14872 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 72:

CCAGTCACAA	AGAAATTGAG	CGCGTTCAGc	TGAGGATGCA	CTATGATGCA	AGCTACATTT	60
CATTTGATGG	GATATTAAGA	AAGGAGATTT	TCATGACACT	TTTAGATGTA	AAACACGTTC	120
АТТТААААА	TAAAACACGT	TTTCAGGGCA	ACCAAGTAGA	AGCCCTCAAG	GATATTCACT	180
TTACCGTAGA	AAAGGGTGAC	TACGTTGCCA	TCATGGGTGA	GTCTGGTTCT	GGTAAATCAA	240
CTCTTCTCAA	TATTCTAGCT	ATGTTGGATA	AACCAAGTCG	TGGTCAGGTT	TACTTGAATG	300
GAACTGACAC	CGCAACTATT	AAAAATTCAC	AGGCTTCTAG	TTTCCGGCGT	GAAAAGCTAG	360
GATTTGTCTT	CCAAGACTTT	AACTTGCTAG	ATACTCTGTC	TGTTAAGGAC	AATATCTTGC	420

			274			
TTCCGCTTGT	CTTGTCAAGA	AGACCTATAA		GAAGAAATTG	GTGGTGACAG	48
CTGAGAATCT	GGGTATTAAC	CAATTGCAAG	AGAAGTACCC	TTACGAGATT	TCTGGTGGTC	54
AGAAACAGCG	TGTAGCAGTA	GCCCGCGCCA	TCATCACAGA	ACCTGAAATT	CTCCTTGCGG	60
ACGAGCCAAC	AGGAGCCCTT	GATTCCAAGT	CATCTGCAGC	CTTACTTGAT	GTCTTTAATG	66
AAATCAATGA	GCGTGGGCAA	ACCATCCTCA	TGGTAACCCA	CTCAACAGCA	GCTGCTAGCA	72
GGGCCAAGCG	TGTTCTCTTT	ATCAAAGACG	GCATTCTTTA	CAACCAAATC	TACCGTGGAG	78
AGAAGACAGA	GCGTCAGATG	TTCCAAGAAA	TCTCTGATAC	CTTGACTGTC	ATGGCAAGCG	84
aggtgaatta	GTATGTTTCG	ATTAACCAAT	AAGTTAGCGG	TATCGAACTT	GATTAAAAAC	90
CGCAAACTCT	ACTATCCCTT	TGCACTGGCT	GTTCTCTTGG	CAGTCACCAT	CACCTATCTC	96
TTTTACTCCC	TAACCTTCAA	TCCAAAGATT	GCGGAAATCC	GTGGAGGAAC	CACCATTCAA	102
GCAACACTTG	GATTTGGTAT	GTTTGTCGTT	ACCCTTGCGT	CACCATTATC	GTCCTCTATG	108
CCAATAGTTT	TGTCATGAAA	AACCGTTCCA	AGGAACTGGG	TATATATGGC	ATGTTAGGCT	114
TGGAGAAGCG	CCATCTAATC	AGTATGACCT	TTÄAGGAGTT	AGTGGTATTT	GGGATTCTAA	120
CTGTTGGAGC	GGGTATCGGT	ATTGGAGCCT	TGTTTGACAA	GTTAATTTTC	GCTTTCCTGC	126
TCAAACTAAT	GAAACTGAAG	GTTGAGCTGG	TTGCTACCTT	CCAAATGAAT	GTTGTCATTG	132
CAGTACTTGT	TGTCTTTGGA	TTGATTTTCC	TAGGCCTCAT	GTTCCTGAAT	GCTCTTCGAA	138
TCGCCCGTAT	GAATGCCCTC	CAGCTCTCGC	GTGAGAAAGC	AAGCGGAGAG	AAAAGAGGTC	144
GCTTCCTACC	TCTCCAAACG	ATTCTTGGTT	CCATAAGTTT	AGGGATTGGC	TATTATCTTG	150
CCCTTACGGT	AACCGATCCT	CTTACAGCCC	TAACAACTTT	CTTCCTAGCT	GTTTTGCTGG	156
TTATCTTTGG	TACTTATCTA	TTGTTTAATG	CAGGGATTAC	AGTCTTCCTA	CAAATCTTAA	162
AGAAAAACAA	GAAATACTAT	TACCAACCTA	ATAACCTCAT	ATCTGTTTCC	AACTTGATTT	168
TCCGTATGAA	GAAAAATGCG	GTTGGACTAG	CAACCATCGC	TATTTTGTCA	ACAATGGTTT	174
TGGTAACCAT	GTCAGCAGCG	ACAAGCATTT	TCAATTCCGC	AGAAAGCTTT	AAAAAAGTTC	180
TAAATCCTCA	TGATTTTGGG	GTTTCAGGGC	AAAATGTTGA	AAAAGAAGAT	TTGGACAAAC	186
TCTTGAGCCA	GTTTGCAAGT	GACAAAGGTT	ATAGTGTCAA	AGAGAAAGAA	GTACTTCGTT	192
ACAGTAACTT	TGGTATTGCA	AATCAAGAAG	GAACCAAGTT	AACTATTTT	GAAAAAGGAC	198
AAAACCGTGT	CCAACCCACA	ACAGTTTTCA	TGGTATTTGA	CCAAAAAGAT	TATGAAAATA	204
TGACTGGTCA	AAAACTGTCT	CTATCAGGAA	ATGAGGTCGG	TCTCTTTGCC	AAAAATGACG	210
GACTGAAAGG	ACAGAAAGCT	СТААСТСТАА	ATGATCATCA	ATTTTCTGTC	AAAGAAGAAT	216
TTAATAAAGA	TTTCATTGTG	AACCATGTTC	CAAATAAGTT	TAATATCTTG	ACTACTGATT	222

ACAATTACCT	TGTTGTTCCT	GATTTACAAG	CCTTTTTGGA	TCAATTCCCA	GATTCGGCTA	2280
TCTATAATCA	GTTTTACGGT	GGTATGAATG	TAAATGTCAG	TGAAGAAGAA	CAACTCAAGG	2340
TCGCTGAGGA	GTATGAAAAC	TACCTCAATC	AATTTAATGC	TCAATTAGAC	ACAGAAGGTA	2400
GCTATGTTTA	TGGTAGCAAT	CTAGCAGATG	CTAGTTCTCA	GATGAGTGCC	CTCTTTGGTG	2460
GTGTCTTCTT	TATCGGTATT	TTCCTATCCA	TTATCTTTAT	GGTCGGAACT	GTTCTGGTCA	2520
TCTACTACAA	ACAAATTTCT	GAAGGCTACG	AAGACCGTGA	ACGCTTTATT	ATCTTGCAGA	2580
AAGTCGGTTT	GGACCAAAAG	CAAATCAAGC	AAACCATCAA	CAAACAGGTT	TTAACTGTTT	2640
TCTTCCTTCC	TTTGCTCTTT	GCCTTCATAC	ATCTCGCCTT	TGCCTACCAT	ATGCTTAGCC	2700
TGATTTTAAA	AGTGATTGGT	GTACTGGATA	CGACTATGAT	GTTGATTGTG	ACCTTGTCTA	2760
TCTGCGCTAT	CTTCCTCATC	GCCTATGTGC	TGATTTTCAT	GATTACTTCA	AGAAGTTATC	2820
GCAAGATTGT	GCAAATGTAA	AAAAGATACC	TCGACTTCAA	AATCGAGGTA	TTTCTTGTAT	2880
TCTAAATGCT	GAAAAGTTGT	CCGAGCAGGA	AGGTAACTCC	CATGGTCAAG	AGACCAATAG	2940
CAAGGTTCCG	AATCATAGCT	GTTTTGGTTG	GGGCTTTTCC	AAGTCTAGCA	CTTGTGTAAC	3000
CAGTGAGAAG	AAGGCCACA	CCGACAATAA	GGACGGTAGC	AGGGATGCGG	TAATCACTTG	3060
GAAAAATGGT	CACTGACAGC	ATTGGAGGCA	AACTTCTAAG	GAAAAAGGCA	ACGAAGCTAG	3120
AAATGGCAGC	GTGCCAAGGA	TTGGTAAATT	CTTCATACTC	AATCCCATAT	TTTTCCTCTA	3180
CCAGAGCCTT	GAGTGGATTT	TTAAGAAAGA	TCTTATTGGT	CAAGAGTTGG	GCAGAAGTTT	3240
TGAATTCTCC	ATTTTGGATA	TAAGCAGCAT	AGAGGGATTT	TTTGGCTAGT	TCCCTATCTT	3300
GGTCTAGCAA	GAGTTTTTCT	CGCGAAACGG	CAGCTTCCTC	GGTATCTTTT	GGAGTTGAAA	3360
CGGATACATA	TTCTCCACCA	GCCATTGAAA	AGGCACCAGC	TAAGATAGCC	GTAAAACCTG	3420
ATAAAAAGAT	AATCCAGATA	TTGGTCGTGG	CACTGGCAAC	TCCGATAACC	ACACCAGCAA	3480
TGGAAATAAT	TCCATCGTTA	GCATCAAGAA	CACCCGCACG	CAGGATATTT	AAACGACCTG	3540
CAAAATTTGA	ATCAATTTCG	TGATTTGTTT	CTGACGCTAA	ATTTCAAGTT	CAAGTTAGCC	3600
ATCAAGAAGT	CTTCTCTGGG	TGACTTGTAG	TCCAAGCATT	TTTTAGGATA	GTTGTTAATC	3660
CACTTTTCGA	TGAATGCGAC	TTCTTTGGGA	GTCATTTTCT	TGGTTCCCTT	AGGTAACCAT	3720
CTACGAATGA	GCCTGTTGTG	ATTCTCATTA	GTTCCCCTTT	CCCAAGAGGC	ATAGGGATGT	3780
GCATAATAAA	TGTGCTCCTC	AGAAAATACA	TTAGACAAGC	GATTGAATTC	CGTTCCATTA	3840
TCTGCCGTGA	TGGAAAGAAT	CTTGTGTTGT	TTTAAGATGA	GTTTTAGAGC	CTGATTGACC	3900
ACATCAGCAC	TTTTATTTGG	AATCAATCGG	ATGATCTGAT	GTCTACTTTT	TCGATCCGTC	3960

			596			
AAGACAAGCA	AGCAGTAGTT	TTTCGCTCTC	GTAAGTAGAA	CTGTATCAAT	CTCATAATGC	4020
CCATTCTCCA	AGCGAAAATT	GATAGCTTCA	AGCCGCTGTT	CGATGGATTG	ACCAGCAGGT	4080
TTAAAGTTGG	TGCTGGCCTG	TTTCTTAAGC	GCTTTTCCTT	TTCTAGGGTA	AAGCAGATCC	4140
TGTTTGCTTA	ACCCCAATTT	TCCATGATGA	ATCCAATAGT	AAATGGTTGA	AATTCCCACG	4200
TTAACCCCTT	TAGCCATCAC	CATCATTTCA	GGCGAAAATT	TTTGGTTATG	ATAGTGGAGA	4260
ATCTTTTCCT	TTAGTTCCTT	GGTCAAGCTT	GATTTCTTGA	CCGAGCGCTT	GCGATTGTTT	4320
TCATAAGACT	GTTGAGCATA	GTCGGCAGAA	TAAACCTCTT	TGAAGCGCCC	TTTTCCAAGA	4380
CATTGTCGGA	CTGTCCCACG	CTTGATTTCA	GTGTGGATAG	TTTGAGGAAC	TTTTCCAAGC	4440
AGAGAGGCAA	TTTCTCTATT	TGATTTCCCT	TCTTTTTTCC	ATCTTTCGAT	TAAGCGACGG	4500
CTATCGATTG	TCAAATGTTC	GCCTTTTGTA	GTATAATGGT	TTTGCATCTC	TGTGCCTTTC	4560
TTGTGTTTGT	GGTTGAACAA	CAAGTATAAC	ACAGAGGTGT	TTTCTTATGC	CTACAAGAGC	4620
TATCGGCTAG	TTGAACCATC	TAATTTTTAG	GAGGGCTGGG	TGGCTAACTT	CATTATAGAA	4680
CTTTCATTTA	CGAACATATA	GTAAAATGAA	ACAAGAACAG	AACAAATCGA	TCAGGACAGT	4740
AAAATCTATT	TCTAACAATG	TTTTAGAAGC	AGAGGTGTAC	TATTCTAGTT	TCAATCTATT	4800
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AAGCTTAGAA	AATGAGATGA	TGTTTTCTAG	САААТАТААА	CCCGAGTAAA	AAATGCCTAC	4920
GGACAGGCAG	GGTTGAATGC	CGAAGCGTGG	TTGAAAAGCC	ACATTATTGA	TAGGGTTAAA	4980
AGCCTACTTT	TATAAGTTGA	TGTTAGGACA	CTTGTCCTAA	TTCATAAATT	TTTAGTGTGG	5040
TGAAAGCACA	CGTCATCTTG	TGAAACGATC	AATAAAGTAC	GTAATATTTG	CTACTAGAGA	5100
GTTAGGAAAC	ATCGGGAACA	GACATACTCA	ACAGAAACCA	AAATAAACAC	GTCAGAAGAT	5160
TGCAGAGCAG	GTGAAAACCT	GCTCTTTTT	CATGAGTCAA	CCTTTAGTTC	CTTAGTTTTC	5220
ATAAGGTCCT	AAAAATATTG	AAAGGAGTAT	GTTTTGAAAG	AGTTAGATCA	AAACCAAGCC	5280
CCAATTTATG	AGGCCTTGGT	GAAGTTACGC	AAGAAAAGGA	TTGTTCCCTT	TGATGTTCCA	5340
GGTCACAAGC	GTGGACGGG	AAATCCAGAA	CTTGTCGAAC	TCTTAGGAGA	AAAATGTGTA	5400
GGCATTGATG	TCAATTCGAT	GAAACCTTTG	GATAATTTAG	GCCATCCTAT	TTCGATTATT	5460
CGTGATGCAG	AGGAGCTGGC	TGCAGATGCT	TTTGGAGCTA	GCCATGCCTT	TCTAATGATT	5520
GGTGGAACAA	CTTCATCGGT	GCAGACTATG	ATTCTGGCAA	CCTGCAAGGC	AGGAGATAAG	5580
ATTATTCTGC	CACGAAATGT	CCATAAATCT	GCTATCAATG	CGTTGGTTCT	ATGTGGTGCC	5640
ATTCCCATCT	ATATCGAGAT	GAGTGTAGAT	CCTAAGATTG	GTATCGCTTT	AGGTCTTGAA	5700
AATGACCGAG	TAGCACAGGC	CATAAAGGAC	CATCCAGATG	CTAAGGCTAT	CCTAATCAAC	5760

AATCCTACTT	ACTACGGCAT	CTGTTCAGAC	CTAAAGGGGT	TGĄCAGAAAT	GGCTCATGAA	5820
GCTGGCATGA	TGGTTTTAGT	AGATGAAGCC	CACGGAGCGC	ATTTGCATTT	CACTGATAAA	5880
CTTCCAATTT	CTGCTATGGA	TGCAGGGGCT	GATATGGCAG	CAGTTTCCAT	GCATAAGTCT	5940
GGTGGGAGTT	TGACCCAAAG	CTCCATTTTA	CTTATCGGGG	AGCAGATGAA	TTCTGAATAC	6000
GTTCGTCAGA	TAATTAACCT	GACCCAGTCT	ACATCTGCCT	CTTACTTGTT	GATGGCTAGT	6060
TTGGATATTT	CACGTCGCAA	CTTGGCCCTT	CGTGGTAAAG	AGTCGTTTGA	GAAAGTCATT	6120
GAGCTATCTG	AGTATGCCCG	CCGTGAAATC	AATGCTATCG	GTGGCTACTA	TGCCTACTCA	6180
AAAGAGTTAA	TAGACGGTGT	TTCGGTTTGC	GATTTTGACG	TAACTAAGCT	GTCAGTTTAC	6240
ACTCAGGGTA	TTGGCTTAAC	AGGTATCGAG	GTTTATGACC	TCTTGCGAGA	CGAATACGAC	6300
ATTCAGATCG	AGTTTGGTGA	TATCGGCAAT	ATCTTGGCCT	ATATTTCCAT	CGGCGACCGC	6360
ATCCAAGACA	TCGAGCGCTT	GGTTGGTGCT	CTGGCTGATA	TTAAGAGACT	CTATTCAAGA	6420
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GAAGCCTTCT	ATTCAGAAAG	AAAAAGTTTA	ACTTTGGATG	ATTCTGTTGG	ACAGGTCTGT	6540
GGAGAATTTG	TTATGTGTTA	CCCTCCAGGT	ATTCCTATCT	TGGCTCCTGG	TGAACGCATT	6600
ACACGAGAAA	TTGTCGACTA	TATCCAATTC	GCCAAGGAAC	GTGGTTGCTC	CCTCCAAGGG	6660
ACGGAAGATC	CAGAGGTCAA	TCATATCAAC	GTTATTAAGA	GAAAGACAAA	CTATAAGAAA	6720
AGTCAATAGT	TTTATCTAAA	CTATTTCTTA	TTTCAATTTG	ATGATTTGGC	GATGATTTTA	6780
GAGCACGGCA	AAAAGCCCTT	GAATTAGAAG	CGGTCAATCG	CTTAATTTCT	ATCAGCTTAT	6840
CAAATCCTGC	CTCAAGCCTT	TTCTGAGGAT	TAGGGTAGCG	TGTCAAGAGT	TGGTAGGTAT	6900
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GCAGGAAGTT	CAGTAGATTA	AAGGCATAAT	GTCCGGTATT	TTCAAGAGCG	ATGAGACAGT	7260
CTTGGTTGAG	CTGTCGAAGA	GACAGATCTA	AGAGTTCAAA	ACCAGCTTTA	TTATTTGAAA	7320
AAGTGAGTGG	TTTAAGAACA	GTTTTTCCTG	GAACATTCAA	GGCTGTAACA	TCGTGTTTAT	7380
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			598			
CGTTATCAAA	CTCATTACCA	ATTGAAACAA	AAAACTGTGG	TTAGAGCCTT	TCGGAAATCG	7560
TCAAGCGATT	GGAGGAAATG	AACTAATCCA	CAGTGGCTTA	TTCCAAGTAT	ACCACTTGGG	7620
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TGGAAAAAGT	GAATGGCAGG	ATATCGAAGT	CTTGGATACG	CCAGCTTTTG	GGAAAATACT	7800
GATTTTAAAT	GGCCATGTCT	TGTTCTCAGA	TGCGGATGAT	TTCGTCTACA	ATGAAATGAC	7860
CGTTCACGTT	CCCATGGCTG	TCCACCCAAA	TCCAAAGAAA	GTATTGGTTA	TTGGGGGTGG	7920
TGACGGCGGT	GTTGCCCAAG	TATTAACCCT	CTATCCTGAA	CTGGAGCAAA	TTGATATTGT	7980
GGAACCGGAT	GAGATGTTGG	TCGAGGTCTG	TCGTGAGTAT	TTCCCAGACT	TTGCTGCAGG	8040
GCTAGATGAT	CCTCGTGTTA	CCATTTACTA	CCAAAATGGG	CTACGCTTTT	TGCGAAACTG	8100
CGAAGATGAT	TACGATATTA	TCATCAACGA	TGCGACAGAT	CCATTTGGCC	ATACGGAAGG	8160
ACTCTTTACC	AAGGAATTCT	ACGGCAATAG	TTATCGAGCT	CTGAAGGAAG	ACGGCATCAT	8220
GATTTACCAG	CATGGGAGTC	CCTTCTTTGA	CGAGGATGAG	TCGGCCTGCC	GAAGCATGCA	8280
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CCCAGCTGGC	TATTGGTTGT	TTGGATTTGC	АТССВАВАВАВ	TACCACCCTG	TCAAAGATTT	8400
TGACAAGGAA	GGCTGGAAAA	AACGCCAGCT	TTTCACAGAA	TACTACACTG	CAAACTTACA	8460
CGTGGGAGCC	TTTATGTTGC	CCAAGTATGT	TGAGGACATT	TTAGAAGAAG	AGGAAGGAAA	8520
AAAATGAGTC	GTTTACTAGT	TATTGGTTGT	GGGGGCGTTG	CCCAAGTTGC	TATTTCAAAG	8580
ATTTGTCAAG	ATAGCGAAAC	ATTTACAGAG	ATTATGATTG	CTAGCCGTAC	CAAGTCAAAA	8640
TGCGATGACT	TGAAAGCGAA	GCTAGAAGGC	AAAACAAGTA	CTAAAATTGA	AACTGCAGCA	8700
CTTGATGCTG	ACAAGGT/TGA	AGAAGTGATT	GCCCTGATTG	AAAGĆTACAA	ACCAGAAGCT	8760
GTTTTGAATG	TAGCTCTGCC	TTATCAAGAT	TTAACCATTA	TGGATGCTTG	TTTGGCAACA	8820
GGTGTTCACT	ATATCGATAC	AGCCAACTAC	GAAGCAGAAG	ACACAGAAGA	CCCTGAGTGG	8880
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GGTTTTGACC	CAGGTGTAAC	TAGTGTCTTT	TCAGCTTATG	CCCTCAAACA	CTATTTTGAT	9060
GAAATCCATT	ATATCGACAT	TTTAGACTGT	AATGGCGGTG	ACCACGGTTA	TCCATTTGCA	9120
ACCAACTTTA	ATCCAGAAAT	TAATCTCCGT	GAGGTTTCTG	CGCCAGGTTC	TTACTGGGAA	9180
GATGGGAAAT	GGGTCGAAGT	CGAAGCTATG	TCTATCAAGC	GTGAGTATGA	TTTCCCTCAA	9240
GTTGGACAAA	aagatatgta	TCTCCTTCAC	CATGAAGAAA	TCGAATCATT	GGCCAAGAAC	9300

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ATGAAATGTC	TTGAAAATGT	TGGACTCCTT	CGTACGGATA	CCATTAACTT	TAACGGCCAA	9420
GAAATTGTTC	CAATTCAATT	TTTGAAAGCC	TTGCTTCCAG	ATCCTGCCAG	TCTTGGGCCA	9480
CGTACAGTCG	GAAAAACCAA	TATTGGATGT	ATCTTTACAG	GTGTCAAAGA	CGGTGTCAAA	9540
AAGACTATCT	ATATCTACAA	TGTCTGCGAC	CATCAGGAAT	GTTACGCAGA	GGTTGGTTCG	9600
CAAGCTATTT	CTTATACGAC	AGGAGTTCCA	GCCATGATTG	GGACAAAATT	AGTCATGAAC	9660
GGAACTTGGA	AACAAGCTGG	AGTGTATAAC	CTTGAGGAGT	TAGATCCAGA	TCCATTCATG	9720
GAAGCTTTGA	ATGAGTATGG	TTTGCCATGG	GTTGTGGTTG	AAAATCCACA	AATGGTGGAC	9780
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CTCAATATGG	GTGGTGGTCA	TCATATTACA	AGAGAAGGTT	ACGATGTGGA	TTTGCTGATT	10440
TCAGAAATCA	AGCGTATCCG	AAAAACTTAC	AATCTTGAAA	TCTATATCGA	GCCTGGTGAA	10500
GCCATTGCGC	TTAATGCGGG	TTATTTAGCA	ACTGAGGTAT	TAGATATTGT	AGAAAACGGT	10560
ATGGAAATCT	TGGTTTTAGA	CGCCTCTGCG	ACCTGCCATA	TGCCTGATGT	ACTTGAGATG	10620
CCCTATCGTC	CACCTTTGAG	AAATGGCTTT	GAGTCACAGG	AAAAAGCCCA	TACCTACAGA	1.0680
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GTCCAAATCG	GAGACAGACT	TTATTTTCAA	GACATGGCCA	TTTATTCTTT	TGTCAAAAAT	10800
AATACCTTTA	ATGGTATTGG	ATTGCCAAGT	CTCTATCTCA	TGGACGAACA	GGGAGACTGT	10860
AGCTTACTCA	AAGCTTTTGG	CTATCAAGAC	TTTAAAGGGA	GATTATCATG	ATGGACAGTC	10920
СААААААТТ	AGGCTATCAC	ATGCCAGCAG	AGTACGAACC	CCATCATGGT	ACCCTCATGA	10980
TATGGCCGAC	TCGACCAGGA	TCATGGCCTT	TTCAAGGAAA	GGCTGCTAAA	AGAGCATTTA	11040

			600			
CTCAGATTAT	CGAGACCATA	GCAGAAGGGG	AAAGAGTCTA	TCTTTTGGTG	GAGCAGGCCT	11100
ATCTATCTGA	AGCCCAATCC	TATCTTGGAG	ACAAGGTTGT	TTATTTAGAC	ATTCCCACCA	11160
ATGATGCCTG	GGCGCGTGAT	ACTGGCCCAA	CCATTCTCGT	CAATGATAAA	GGTAAGAAAT	11220
TAGCCGTGGA	TTGGGCCTTC	AATGCTTGGG	GAGGCACCTA	TGATGGTCTT	TATCAAGATT	11280
ATGAAGAGGA	TGACCAAGTA	GCCAGTCGTT	TTGCTGAGGC	CTTGGAAAGG	CCTGTCTATG	11340
ATGCTAAACC	TTTTGTACTG	GAAGGAGGCG	CAATCCATAG	CGATGGTCAA	GGAACTATTC	11400
TCGTAACTGA	AAGTTGCTTG	CTTAGTCCTG	GTCGCAATCC	TAACTTGACT	AAAGAGGAGA	11460
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AGTATGCCCA	ATCTGTAGCG	GAAAATACTG	CCATTCAGCA	TTTTAAGGTG	ATTGCTAAGG	12240
AACTACAAGT	TGTTTTACCA	ATCAGTTTCT	ATGAAAAAGA	TGGTAATGTC	TTGTATAACT	12300
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CAGATGACCA	TTATTATCAA	GAAAAATTCT	ATTTCACGCC	TGGTAACACT	GGTTTCAAGG	12420
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GTTCAGAGCC	AATTTTGGAT	ACAGATAGTT	GTGGTCACTG	GCAACGTACT	ATGCAAGGGC	12600
ACGCAGCAGC	GAATATTGTT	CCAGTCATCG	CAGCCAATCG	TTATGGTTTA	GAGGAGGTTA	12660
CTCCTAGTGA	GGAAAATGGC	GGACAGAGCT	CCAGTCTTGA	CTTCTACGGT	TCCTCCTTTA	12720
TGACGGATGA	AACAGGAGCT	ATTCTAGAAC	GAGCTGAAAG	ACAAGAAGAA	GCTGTTCTGT	12780
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TTCTGCTAGA	CTAACTTCTT	ATTAGTAACT	ATAAGATACT	ATGGCATCTA	GTAAATCGAT	12960
TTTTATGATT	CGCTATTCTT	GTCTATTGAT	TAGTCCGTAT	TATAAAATAT	TAGCAAAAAA	13020
GCAAATAGCA	GTAACTTCTG	TCTATTTGCT	TTTCTTTTT	ATAGAATATA	TTTCTCAATA	13080
GCACGCGCAA	CGCCGTCTTC	TTCGTTGCTT	GAGGTAACGG	CATCCGCAAG	AGATTTGATA	13140
TAATCGCTGG	CATTTCCCAT	TGCAATCCCA	AGCCCTGCAA	ACTGGAGCAT	TTCGATATCG	13200
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CGTGAAAGAG	CAGTAGCCTT	TGTCGTTCCA	AGCGGCATTG	CTTCATAAAT	GACAGGCTGC	13320
GAACGAACTC	CACTGAATCG	TTGGCAAAGC	TCTTCAGCAA	AACGCTGCTC	AAAATCGTCT	13380
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TCGTTCTGGA	GGTCAAGCTC	CAGTTTTTTG	TAGTAGGGGA	GGACACCGAA	AAGGGGGCGA	13740
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GCTTGTGGGA	TTTCCTTGGC	TTCATTGAGG	AGGGTGCCGT	CCATATCCAA	GGCTAGTAGT	13860
TTAATCATAG	GTCTTCCTCT	TTATCTTTGC	TATTATTATA	GCATATTTTG	GAGAAGAAAT	13920
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CAAATTAAAA	AACCAACTTA	ATATAATAGT	TTTTTTGTAA	GTAGGTATGA	GTAGCAGATT	14100
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AAATCTAACA	AATGAAGAAT	TAGAGCTGAT	ACAAGGTGGA	GCAGATCCAT	ATGGTAAAAA	14220
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AGTCGTGAAT	TTTTTCAGAT	TCTGCTTTTG	ATGGAGAGCG	GAGTTCTTTT	CTTAGCGGTC	14580

ATCTATCTAC TGGTTTTTGC AGGAAAGAAA ATTTTTCATT TCAAGTGGCA GCTGAGGTAC 14640
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TTCATATCCC TGTCTTCAAA TCAGATTTCT TTGAATGAAA CGGTAGAAAT GATGGGAAGA 14760
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ATTTATCGAG GLGTGCTTAT GACAACCTGT TGCAAAAACT CACCTTGGTA CG 14872

#### (2) INFORMATION FOR SEQ ID NO: 73:

#### (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 10223 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 73:

CGTGCTATCG GTCTCAAAAC CAATCTGGTC GCTATGGTCA AATCCAGTTG GAAAATCCAT 60 TCTTCTTGGA GCCATCTGCT GGATTGCCAT CATCCTCACC ACTCTTGGTA TGCAGACCCT 120 TATCGGCATT TTCTAATACT CTTCGAAAAT CTCTTCAAAC CACGTCAACG TCGCCTTGCC 180 GTAGGTATAT GTTACTGACT TCGTCAGTTC TATCTGCAAC CTCAAAACGG TGTTTGAGCT 240 GACTTCGTCA GTTCTATCTG CAACCTCAAA ACGGTGTTTT GAGCTGACTT CGTCAGTCGT 300 ATCTACAACC TCAAAACAGT GTTTTGAGCT GACTTCGTCA GTTCTATCTG CAACCTCAAA 360 ACAGTGTTTT GAGCAGCCCG TGGCTAGTTT CCTAGTTTGC TCTTTGATTT TCATTGAGTA 420 TAACACAAAA GGTAGCCCAT CAGCTACCTT TTTCTTATGC TTCCTCAATC AAGCGAGTAT 480 GTTCTCTCT GATACAGCGA TTCATCACGA TATCATCACA TCCACCATCA CGCAAAATCT 540 CTTTCGCTTC TAAACTTTCA AGTCCTAGCT GTGCCCAAAA AATCTTGGCA TCAGCTTTGA 600 GAAAATCACG CGCCACATCG GGCAGAAATT CACTGCGACG ATAAACATTG ACAATATCTA 660 CAGGAAAAGG AATTTCAGCG AGGCTAGCAT AAGCCTTTTC ACCCAAGATT TCGCCACCTG 720 CCGCCTTGGG ATGACTGTTAT AGCCCCGAGC CTGCATTTCC TTTGTTACTC 780 GATTGCTGGT TGTTTCTTCA CGGTCAGACA AACCCACCAC AGCAAGGGTT TTACTCGTTG 840 CGAGATACTG ACGAATCACG CCATCACTTG GATTGATAAA TTCTTGACTC ATAGAAATCC 900 TCCTTTTCA TCAGTATAGC ACATTTGAA AAGGTTTGCA GAATTATACT ACAAAAAAGG 960 AGGACTAGCC CCCTTTTTAT TTAGCCTCGT ACCAGGTTGC CCCTTCATTC TCATCTGCGA 1020 TAAGAGGAAC ACTGAGTTGA ATGGCTTCTT CCATGGTTTG TTTCACCAAT TTTTTCATCT 1080 CTACCAATTC AGATTTAGGC ACTTCAAGGA CGATTTCATC GTGCACTTGT AACAGCATCT 1140

rag?	<b>PCTGATA</b>	ACCACCTGCA	ACCAAGGCTT	TATCCAGCTG	AATCATGGCA	ATCTTGAGAA	1200
PATO	CTGCTGC	CGAACCCTGG	ATAGGTGAGT	TGATAGCAGT	TCGCTCCGCA	AAACCACGAA	1260
rati	rgaagtt	GCGCGAATTG	ATATCTGGCA	ACTCACGGCG	ACGCTTAAAG	AGGGTCTCTA	1320
TAC	AGCCCTT	ATCACGCGCC	TCCCGCACCA	CTTCATCCAT	GTAGTTTTTA	ATACCTGGAA	1380
AACC	STTCAAA	GTAGGTATCA	ATGTAGGCTT	TGGCTTCCTT	ACGACTAATT	CCCAAATTAT	1440
PAGA	ACAAGCC	AAAGTCTGAA	ATCCCATAAA	CCACTCCAAA	GTTAACTGCC	TTGGCATTGC	1500
SACC	GTCGTT	TGCAGTCACA	TCATCAGGAC	GCTCAATGCC	AAAGACCCGC	ATGGCTGTCG	1560
\AG1	PATGGAT	ATCTGCCCCC	TCTTGGAAGG	CCTTAATCAA	GTGCTCATCC	TTAGAAATAT	1620
CGC	CAAAAC	GCGCAATTCA	ATCTGTGAAT	AGTCAGAGCT	GAGTAGCACA	CTATCCTCCC	1680
CTC	TGGCAC	AAAAGCCTTC	CGAATCAAGC	GCCCCTGTTC	CAATCGGGCA	GGAATATTTT	1740
CAZ	AGTTTGG	ATCCACACTA	GACAAACGCC	CGGTCTGGGT	CAAATCCTGC	ACATAGCGAG	1800
PATO	SAATCTT	TCCATCAGCC	AAAATCCAGT	CCTGCAAGCC	AATTACATAA	GTAGATTGAA	1860
rcri	PAGCAAT	TTGACGGTAA	TCCAGGATTT	TCTTAACAAT	CGGAGCAATA	GGAGCGAGAC	1920
CTC	TAAAAC	ATCCACTGCT	GTCGAATAAC	CTGTCTTGGT	TTTCTTAGTG	TATTCTAGAG	1980
GAAC	FTCCCAA	TTTCTCAAAG	AGAAGCACGC	CCAACTGCTT	AGGCGAGTTG	ACATTAAACT	. 2040
CTC	CACCAGC	CAGCTCGTAA	ATCTCTTGAG	TCAGTTTTTC	AATGACAAGC	TCATTTTCAG	2100
CTC	CATCTC	AAGCAAGGTC	TCTTTCTTGA	CCATAATCCC	AGCAATTTCC	ATCTTGGCAA	2160
GAC	CAAAAGC	CAGAGGTTGC	TCCATATCAT	AAAGAAGCTC	TAATTGCCCA	TTTTCGCTGA	2220
TT	TTCAAG	TAAAATAGGC	TCTGTTTCTA	CCAAAACAGC	AAGTTTACAA	GCTAAGTGTT	2280
CAA	AGAATTT	CTCACGTTCA	GGAATGGCCT	TTTTAACACC	CTTACCGTAG	AAAGTTTCAT	2340
CATC	CAACCAA	GTAAGTCTGA	CCATAAAGAC	TAGCGATGGT	CGCAATTTCA	TTGTCCTCCA	2400
CAGI	CGAAAG	GAGGTATTTA	GCCAAACGGA	TGTCAAAAGC	AGGCGCCTGC	AAATCCACAC	2460
AAA:	ACGTTG	CAAAAGAACT	TTAACCTTCT	TAAAGTCATA	AACTCTCAGA	GATGTTTTTT	2520
TAP	GAAATC	CTTGAAAATC	GGGTCTTGCA	ACAGCTCAAG	CTTGTCTGTG	GCATAGAGCT	2580
TATO	CCCACA	AGACCAGACA	AATCCAACCA	AATTATCCGT	ATGGTAATTC	TCACCAAAAA	2640
CTC	AAAGTG	GAAGATAGAC	TCTTCACTCA	GCATATCTTG	ACTGATTTGG	TCAACAATAG	2700
'AAA'	ATCCAA	ACTCTCAGAC	ACATCAGCTG	ACGACACATT	TAAAGCCTGC	TTTAGCTGTT	2760
GAA	GCCCAT	CTCATCGTAG	AATTTCCCAA	GATTTTCAAC	ATCTGGACCA	CTATAGACCA	2820
GTC	СТСТАА	ACCAATCGCA	ATCGGTGCCT	TGGTATCAAT	GGTCGCTAGT	GTTTTAGACA	2880

			604			
AAAAGGCCTG	TTCCTTGTCA	TTGATGAGAT	TTTCCTTCAT	CTTAGAAGTC	TTCATTCCAT	294
CAATATTTTC	ATAAATCCCC	TCAAGCGAAC	CATGCTCCAG	CAAGAGCTTA	ATACCCGTCT	300
TTTCACCGAC	TTTGGTCACC	CCAGGGAȚAT	TATCCGACTT	ATCACCCATG	AGCGCCTTGA	306
GATCGATAAA	CTGAGCTGGT	GTGAGGCCCA	TTTCTTCCAT	GAGGTAATCT	GGCGTAAAGG	312
CCTCAAACTC	AGCCACACCT	TTCTTGGAAA	TTTCAACCAC	CGTATGCTCA	TCCGTCAGCT	318
GAATCAAATC	CTTGTCCCCA	CTGACAATAG	TAATATCAAA	ACCATCCTGC	TCTGCTAGCT	324
TATCCAGCGT	CCCAATGATG	TCATCCGCCT	CATACTGAGC	CAGATCATAG	TGACGAATCC	330
CCATATGATC	CAGCAACTCA	CGAATGAAAG	GAAATTGCTC	ACGAAACTCA	TCAGGAGTCT	336
TGGCCCGACC	ACCCTTATAG	TCCGCATACA	TCTCTGTCCG	GAAGGTCGTC	TTTCCCGCAT	342
CAAAAGCCAC	CAAAATATGA	CTCGGCTCAA	CCCGCTCCAA	TAAATGACTC	AACATCAACT	348
GAAAACCATA	AATCGCATTG	GTATGCAAAC	CAGCCACATT	CTTAAAACGG	TCCAACTGCT	3540
GATACAGCGC	AAAAAACGCC	CGAAAAGCTA	CAGAAGACCC	ATCAATCAAT	AATAATTTTT	360
TCTTATCCAT	ACACCCATTA	TAAAGGAAAG	AATCAAAAAA	TACCATTGGG	AAGAGCTAGA	3666
GCAAGTATTT	TTCAAACTTT	TTCCGAATAA	ATAGATAGAG	CCAGAGAATT	TAGTAAACCT	372
AGATTTAAAA	ATGTGCTATA	ATATAGTATA	TTGAATCTAT	AATAGTACAC	CTTGACTGCT	3780
AAAATATTTC	TATAAATTAA	TTTGACTTTC	CTGATAGAGT	TATTCACATC	ТТАТТТСААС	3840
TCACTATAGA	AGGAGGAATA	GGAGGATTCT	CAGACATCCG	GGCATCAGCC	CAACTAATGA	3900
TTTGATTGCT	AAGAAAATAT	TCAGCAATCC	AGAAATCACT	TGTCAATTTA	TTCGCGATAT	3960
GCTGGACTTG	CCAGCAAAAA	ATGTGACCAT	TTTGGAGGGA	AGCGATATTC	ACGTATTACT	4020
CTCCATGCCT	TACTCGGTGC	AGGATTTTTA	TACCAGTATA	GACGTCTTGG	CGGAGTTGGA	4080
TAACGGTACT	CAAGTAATTA	TTGAGATTCA	AGTCCATCAT	CAGAATTTTT	TCATCAATCA	4140
CTTGTGGGCT	TACCTGTGCA	GTCAGGTTAA	TCAAAATCTT	GAAAAAATTC	GTCAGCGAGA	4200
AGGTGATACT	CACTAGAGCT	ACAAACACAT	CGCTCCTGTT	TACGCCATTG	CTATCGTGGA	4260
TAGTAATTAT	TTCTCAGATG	ACCTGGCTTT	TCATAGCTTT	AGTATGCGCG	AAGACACAAC	4320
AGGTGAGGTA	TTGGCGATTA	CCAACAATGG	ACAGGAAAAC	CATCTGGTTA	AGATGGCATT	4380
CTTGGAATTA	AAAAATACAG	AGAAACCAGC	AAAGACAAGG	TTCGCAAGCC	ATGGTTGGAG	4440
PTTTTCGGCA	ACAAGCCCTT	TACCCAGCAA	CCGCAACGAG	CCATTACCCA	AGCAAATCAA	4500
CTGCTGGACT	ACAAGAGCTG	GTCCGAGGAG	GACAGGAAAA	TGTTTAGTCA	ACTACATATG	4560
CGAGAAGAAC	AAGTCTTGTT	AGCACAGGAC	TATGCCTTGG	AAACTGCTAG	GGCTGAAGGC	4620
CTTGAACAAG	GACTAGAGCG	TGGGAAAGTT	GAAGGAAGGG	CAGAAAGGAA	ACTTTTTGCC	4680

TTCCTAGACA	TAGTACGCCA	AGGTCTTCTG	ACTTCTGAGG	TTGCCAGCCA	GCAATTAGGT	4740
ATGTCAGTAT	CTGAATTTGA	GGCACTGTTG	TAAAATGGCT	CCATAATATC	CATAGTGGGT	4800
AAATCCCCTA	TGGATATTAT	GGAGCCTATT	TTGTGTAGAA	AAAAAGTCCC	ATATGACCTA	4860
TAATGAAAAG	CGACAAAACA	ACTCATTAGA	AAGAATCATA	TGGAACAATT	ACATTTTATC	4920
АСААААТТАС	TAGACATTAA	AGACCCTAAT	GTCCAGATTT	TAAACATCAT	CAATAAGGAT	4980
ACACACAAGG	AAATCATCGC	CAAACTGGAC	TACGACGCCC	CATCTTGCCC	TGAGTGCGGA	5040
AACCAATTGA	AGAAATATGA	CTTTCAAAAA	CCTTCTAAAA	TTCCTTATCT	TGAAACGACT	5100
GGTATGCCTA	CAAGAATTCT	CCTTAGAAAG	CGTCGATTCA	AGTGCTATCA	CTGTTCAAAA	5160
ATGATGGTCG	CTGAAACTTC	TGATGACGTA	CAGTCATATT	TCTTCTCTTT	TTATTATATC	5220
ACAGTTTTAA	ATCTAGCTTT	ACTAGATTCA	CCGCTACTAT	CTATTTATTC	GGAAAAAAGA	5280
CGAAAAAACC	TGAGAATCAT	CTCAGGCTTG	GTCATTAAAT	TTTTTTCTCA	ATATCGAAAA	5340
GTGGAGAAAG	TGGTCGTTTT	TCATGAATAC	GTACGATAGC	ATCCCCTAGG	AGATGAGCGA	5400
TTGAAATCTG	CTCAATCTTA	TCAATCAAAC	GCTCTTCTGG	CAGATAGATG	GTATCCAAAA	5460
CAACCAATTT	CTTAATAGCT	GATTTTTGGA	TATTGTCCGT	AGCAGGACCA	GAAAGAACTG	5520
GGTGCGTACA	GCTTGCATAG	ACTTCAACAG	CACCAGCTTC	CGCAAGAGCA	TCTGCCGCAT	5580
GACAAATCGT	TCCAGCGGTA	TCAATCATAT	CATCAATCAA	GATACAAGTC	TTGCCTTCAA	5640
CCTTACCGAT	GATATTCATA	ACTTCACTAG	TATTCATCTT	ATCAACGCTA	CGACGTTTAT	5700
CAATAATAGC	GATAGATGTT	TTCAAAAATT	CTGCCAACTT	ACGAGCACGA	GTCACCCCTC	5760
CATGGTCCGG	GCTGACAACC	ACATAGTCAG	AACCAACCAT	ACCACGACGC	тсаалатаат	5820
CTGCAATCAG	AGGAGCACCC	ATCAAATGAT	CCACAGGAAT	ATCAAAGAAT	CCTTGAATTT	5880
GCGCAGCATG	CAAGTCGATG	GTCAATAAAC	GATCCACTCC	AGCTACTTCA	AGCATATTTG	5940
CGACAAGTTT	TGAAGTGATT	GGCTCACGCG	CTCTCGCCTT	TCTATCCTGA	CGTGCATACC	6000
CATAGTAAGG	CATGACAACA	TTGACAGATT	CTGCACTCGC	ACGCTTCAAA	GCATCTACCA	6060
ТААТСААААТ	TTCAAGCAGA	TTGTCATTTA	CAGGCGAACT	AGTTGATTGT	AAGATAAAGA	6120
CGTGTTTCCC	ACGGATTGAT	TCTTCAATGT	TGACCTGAAT	CTCTCCATCT	GAAAATTGGC	6180
GAACACTTGA	TTTCCCCAAC	TCTATCCCAA	TCTCCTGCGC	CACACGTTCT	GCCAATTCTT	6240
TATTAGAAGA	AAGGGCAAAC	AGCTTTAAAT	CAGAAAAAGA	CATGATTTCC	TCCGGTATAT	6300
ATGTATAACT	TGTGCTTTTC	ACAAGATTTT	CCATCTACCA	TTGTAGCGCT	TTTTGCACTA	6360
TTTTTCAATC	AAAATAAAA	GAAGGGCACC	ATATTTGTAC	CCTTGCATCA	TTCTTTTGAA	6420

606 AAATATTCTA GGTCATCAAC TCATTGTGTT TCTCAACAAA GCAATAAGCA TGATAAAAAC 6480 CATAGAGAGC AATAGCCGTA ACCACTGGAA TCGCTAAAGG CAACTCTGTT TCCAACTCCA 6540 CAAAAGGAGA GTTAAACAAG AAGTGAGTTC CCAAGGCTAA ACCTAGAAAA ATAAGGCCCT 6600 GTTTCTTGCC AACCTTCTGT CCTTTATAGG CTCTGTAAAG CAAGTAAACA CCTACTACAG 6660 CTAGACCTGA AAAAGTCCAG TGAGAGGCAA TTCCTGAGAT GATACGCTCT AAAATTCGCG 6720 AAATAGTAAA GTCAAAGCCC TCTGGCAAAT CCGTACGAAT ATAACCAATA TCCTTAATCA 6780 TTTGGAATCC CAAACCGGAA GCAATTCCAA GTAAAAACAA AGATTTTAAT TTTCGCACAG 6840 GAATCAAAGC CAAAACAAAA ACAAGTGACA ATAATTTCAA GGGTTCTTCT ACCAAAGGAG 6900 CCGCAATAGC ACTITCAAAG GCATTTAAAA ATGGACTATC TGGGAAAAGA ACCCCCAGTA 6960 AATCATGGAT ATAAGTATTA GCAAAACTAG ACAACCAGCC TGAAAGGAAC ATCCCTCCCA 7020 ATAAAGACAG AATCAAAACC TTCTTTGGCA ATTCCCATTT TTCCCAATAC GGAAGAGAAA 7080 ATAAAGAGCC GGAATCATGT AAAAGAGAGC TAGAAAGATA GAAACTCCCA TTAGTCCATA 7140 TTCCGCACCT GACCTCGAAC CGTCCGTATA GTAGATGGTT TCATACTGTA AACCAATACA 7200 TAGCAATAAA ATAAAAATAA ATAAAATATT GCTTTTCTTC ATACACTTTC TTTCTAAATG 7260 AAGTATTTAT AATTCTACGA CTGTCATACT TCCTGTATCA ACATTGTAAA TGGCACCAGA 7320 GATAATGACA TCGTCTGGTA TTAGGGGAGA CTCGATAAGC AGTTGCATAT CCTCGCGTAC 7380 ACTCTCTTCT ATATCTTGGA AGGGCAAGAA GTCCTGGTCT GACACATCGA CACCCAATTC 7440 TTCCTTCAAA TACTCCTGAA AAGGTTCATT TTCAAAGGTC TGAGCACCAC AGTCTGTATG 7500 ATGCAATACC ACAATTTCTC TTGTCCCCAT TTGTTGCTGG GAAATAACTA GAGAACGAAT 7560 CATATCCTCA GTCACTCGAC CACCTGCATT CCGCAAAATA TGAGCATCCC CAAGTGCCAA 7620 ACCTAGAGCT TGCGCAACGT GCAAACGTGA GTCCATACAG GTCACAATGG CTACTCTGGT 7680 TTTAGGTTTA AGTGGCAGAT TTAACTGCCC ATGTAGGGCA ACATAAGCCT GATTGGCTTG 7740 CATAAACTGT TCAAAATACG ACACGATTCC CTCCTTGAAA ATTTGATAGT CAAATATTTC 7800 TCCTATCTTA TCATTTTTAA GAGAATTTGT CACGGATTAT GCAAAGACCT TTTTCAAGAC 7860 TTCCTGAATC GTTGTCACGC CAATGACCTG AATTTCCTTA GGCAGAGTGA TTCCTGTCAA 7920 GGAATTCTTA GGTACATAAA TCTTAGTAAA GCCCAGTTTA GCAGCTTCGT TGATGCGTTG 7980 CTCAATACGA TTCACGCGCC GAATCTCTCC TGTCAAGCCC AGTTCTCCGA CAAAACATTC 8040 CTGAGGATTA GTTGGCTTGT CTTTGTAGCT CGAAGCAATA GCAACTGCAA CAGCCAAGTC 8100 AATCGCAGGT TCATCCAATT TAACACCACC AGCAGATTTG AGATAGGCAT CCTGATTTTG 8160 CAAGAGAAGC CCTGCCCGTT TTTCCAAAAC AGCCATAATC AAGCTAGCAC GGTTAAAATC 8220

AAGTCCTGTC	GTAGTACGCT	TGGCATTTCC	AAACATGGTC	GGTGTTACCA	AAGCCTGAAC	8280
CTCCGCCAAA	ATCGGACGCG	TCCCTTCCAT	GGTTACAACG	ATGGAGGAAC	CAGTCGCCCC	8340
ATCCAAACGC	TCTTCTAGGA	AAACTTGACT	CGGATTGAGT	ACCTCAACCA	AGCCGCCCGA	8400
CTGCATCTCA	AAAATCCCAA	TCTCATTAGT	GGAACCAAAA	CGATTTTTGA	CCGCTCTCAA	8460
AATACGAAAG	GTGTGGTGAC	GCTCCCCTTC	AAAGTAAAGC	ACCGTATCCA	CCATATGCTC	8520
CAACATACGA	GGCCCAGCCA	AGGTTCCTTC	TTTGGTCACA	TGACCTACGA	TAAAGATGGC	8580
AATGTTATTG	GTCTTGGCCA	ACTGCATGAG	TTCAGCGGTC	ACTTCACGCA	CCTGAGAAAC	8640
AGACCCCTGC	ACCCCTGAAA	TCTCAGGAGA	CATGATGGTC	TGGATGGAAT	CAATAATGAG	8700
AAAGTCTGGC	TGGATACGCT	CCACTTCTGC	ACGAACACTC	TGCATATTGG	TCTCTGCATA	8760
GAGATAAAAC	TCACTATCAA	TATCACCTAA	GCGCTCTGCA	CGTAGTTTAA	TCTGCTGGGC	8820
AGACTCCTCC	CCACTGACAT	AGAGAACTGT	CCCCACTTGG	GACAACTGGG	TTGAGACTTG	8880
TAGGAGAAGA	GTTGATTTCC	CAATCCCAGG	ATCCCCACCG	ATAAGGACGA	GACTTCCTGG	8940
TACCACTCCG	CCTCCAAGCA	CACGGTTGAA	TTCCTCCATC	TCCGTCTTGG	TTCGATTGAC	9000
ATTGATGGAA	GTCACCTCAG	CTAGTTTCAT	GGGCTTGGTT	TTCTCACCTG	TCAAGGACAC	9060
ACGCGCATTC	TTAACTTCGG	CAACCTCAAC	CTCTTCCACA	AAAGAAGACC	AAGACCCACA	9120
GTTGGGGCAA	CGTCCCAGAT	ATTTAGGGGA	ATTATACCCA	CAATTTTGAC	ATACAAATGT	9180
CGCTTTTTTC	TTTGCGATGA	CAAACCTCTT	TCTATATCTC	TAACTCACAC	TCAATCACTT	9240
GGCAAAAATC	AATCTTCTCA	TTTGGCACAA	ACTGGCGCAT	GAGCATTCGA	TGAGCAACAA	9300
CTACCACAGT	CTGATGTTCT	CGATACTTAG	ACATACATTC	TAGAAACCGA	GACTTCATTT	9360
CCGTAGCTGT	CTCATATTGA	ATAGGACTAT	TAGGAAGCAA	CTCCCCCTTG	TTTTCTAAAA	9420
ACAGTCTTCT	AGCTGTTTCA	AAGTTTTCTA	TTCCTGTTTT	ATAGACCTGC	CATTCATGTA	9480
ATAAAGGCTC	TACTCTTAAA	GGAAGACCCG	TAGCACAGAC	CACATACGAA	GCCGTTTCTA	9540
AAGCTCTTGT	GACTGCAGAA	GATACGATTA	TTTCAGCTGA	CGAGAGTAAA	GGATTTTTGC	9600
TCAATTTCTG	GACTTGCTGC	CGTCCCATCT	CAGACAAGGG	TGCCAAATCT	ATCCCAAATC	9660
CTATATAAGA	ACGCTCCTCT	AACTCACGGT	AATCTGGCTC	CCCATGACGT	ACAAAGATAA	9720
TCTTCATTCT	AGTGCCCTGT	CGATCCAAAT	CCACCAGTTC	GAACGCCATC	AGCTGCATCT	9780
CCATCTGCAA	TTAAGAAAGT	AGCAAAAACA	GCCTGGACAA	TACGCTCCCC	AACTTCAAGA	9840
ACAACCTCTT	GGTCTGTGAT	ATTCTTCATC	TGCGCAAAAA	TATGCCCTTC	ATTTCCAGGA	9900
TTTCCATAAT	AATCCCCATC	AATGACTCCA	ACTGAGTTAA	TTAAAACCAA	GCCCTTCTTA	9960

608 CGAGGATTTG AAGAACGATC ATAGAGGTAG AGAACCTCAG TCGGCTGCAT ATAAGCCTTA	10020
ACCCCTGTCG GAACCAAGAC AATCTCTCCT GGCGCAACAA CTGTACGCAC AGCAACCTTT	10080
AAGTCGTAAC CAGTCGCATG CGCTGTCTCA CGCTTGGGCA ATAAATTTTC ATCTGTAAAA	10140
CTCGAAACCA ATTCAAAACC ACGAATTTTC ATAATTTTCT CTTTTCTATT ATCATTTATT	10200
CTAGATTATT CTATACTTAT TTA	10223
(2) INFORMATION FOR SEQ ID NO: 74:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 16535 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 74:	
TEGTTCTETC CTTATCEGCG CCTTGTCTTG CTTGCCATGG CTACACCAAC TATCTCATCC	60
GACGAAAGTA CACCAACCAC TAACGAACCC AACAACAGAA ATACAACCAC CCTTGCCCAA	120
CCTCTTACTG ATACAGCAGC TGGCTCTGGT AAGAACGAAA GTGATATTTC TTCACCTGGA	180
AATGCAAACG CTTCCCTAGA GAAAACAGAA GAAAAACCTG CTGCAAGCCC AGCCGATCCA	240
GCACCACAAA CTGGACAAGA TCGTTCAAGT GAGCCAACTA CTTCTACTAG TCCAGTAACA	300
ACTGAAACTA AGGCAGAAGA GCCCATCGAA GATAACTACT TCCGTATCCA TGTCAAAAAA	360
CTTCCTGAAG AAAACAAGGA TGCTCAAGGA CTATGGACTT GGGACGATGT TGAAAAACCA	420
PCTGAAAACT GGCCAAACGG AGCTTTGTCC TTCAAGGATG CCAAGAAAGA TGACTACGGC	480
TATTACCTAG ATGTCAAATT AAAGGGAGAA CAAGCCAAGA AAATTAGCTT CCTCATCAAC	540

AATACAGCTG GAAAAAATCT AACCGGCGAT AAATCTGTAG AAAAACTAGT TCCAAAAATG

AACGAAGCTT GGTTAGACCA AGATTACAAG GTTTTCTCTT ACGAGCCACA GCCTGCAGGA

ACTGTTCGCG TCAACTACTA CCGCACAGAT GGCAACTATG ACAAGAAATC TCTCTGGTAC

TGGGGAGATG TGAAAAATCC AAGTAGCGCT CAATGGCCTG ACGGAACAGA CTTTACGGCT

ACAGGCAAAT ATGGCCGCTA TATCGACATT CCTCTTAATG AAGCCGCAAG AGAATTTGGA

TTTTTATTAC TAGATGAGAG CAAACAAGGA GACGACGTGA AAATCCGTAA AGAAAATTAT

AAGTTCACAG ATTTGAAAAA TCATAGCCAA ATTTTCCTAA AAGACGATGA TGAATCGATT

TACACAAATC CATACTATGT CCATGATATC CGTATGACAG GAGCCCAACA CGTAGGCACT

TCTAGCATTG AAAGTAGCTT TTCAACACTT GTCGGTGCTA AAAAAGAAGA TATCCTCAAA

CACTCCAACA TCACTAATCA CCTAGGAAAC AAGGTAACTA TTACCGATGT TGCAATCGAT

600

660

720

780

840

900

960

1020

1080

GAAGCTGGTA	AGAAAGTGAC	CTACAGCGGA	GATTTCTCTG	ACACAAAACA	TCCTTATACT	1200
GTTAGCTACA	ATTCCGACCA	ATTCACTACC	AAAACAAGCT	GGCGCCTGAA	AGATGAGACA	1260
TACAGCTATG	ATGGCAAACT	GGGAGCTGAC	CTAAAAGAAG	AAGGAAAACA	AGTTGATTTG	1320
ACCCTTTGGT	CACCAAGTGC	TGATAAGGTT	TCTGTTGTTG	TCTACGACAA	GAATGACCCT	1380
GACAAAGTAG	TTGGAACTGT	CGCTCTTGAA	AAAGGGGAAA	GAGGAACTTG	GAAACAAACT	1440
CTAGACAGCA	CAAACAAACT	CGGAATCACA	GATTTCACTG	GCTACTATTA	TCAATACCAA	1500
ATCGAGCGTC	AAGGTAAAAC	TGTTCTTGCA	CTCGATCCTT	ACGCTAAATC	TCTTGCTGCT	1560
TGGAATAGCG	ACGATTCCAA	GATTGACGAT	GCCCATAAAG	TGGCTAAAGC	CGCCTTTGTA	1620
GATCCAGCTA	AACTCGGACC	TCAAGACTTG	ACTTATGGTA	AGATTCACAA	TTTCAAGACT	1680
CGTGAAGACG	CCGTTATCTA	CGAAGCTCAT	GTGCGTGATT	TCACTTCAGA	TCCTGCCATT	1740
GCAAAAGACT	TGACCAAACC	ATTTGGGACT	TTTGAAGCCT	TCATTGAAAA	ACTAGACTAT	1800
CTCAAAGACT	TGGGTGTAAC	CCATATCCAG	CTCCTTCCAG	TCTTGTCTTA	CTACTTTGTC	1860
AATGAATTGA	AAAACCATGA	ACCCTTCTCT	GACTACGCTT	CAAGCAACAG	CAACTACAAC	1920
TGGGGATATG	ACCCTCAAAA	CTACTTCTCC	TTGACTGGTA	TGTACTCAAG	CGATCCTAAG	1980
AATCCAGAAA	AACGAATCGC	AGAATTTAAA	AACCTCATCA	ACGAAATCCA	CAAACGTGGT	2040
ATGGGAGCTA	TCCTAGATGT	CGTTTATAAC	CACACAGCCA	AAGTCGATCT	CTTTGAAGAT	2100
TTGGAACCAA	ACTACTACCA	CTTTATGGAT	GCCGATGGCA	CACCTCGAAC	TAGCTTTGGT	2160
GGTGGACGCT	TGGGGACAAC	CCACCATATG	ACCAAACGGC	TCCTAATTGA	CTCTATCAAA	2220
TACCTAGTTG	ATACCTACAA	AGTGGATGGC	TTCCGTTTCG	ATATGATGGG	AGACCATGAC	2280
GCCGCTTCTA	TCGAAGAAGC	TTACAAGGCT	GCACGCGCCC	TCAATCCAAA	CCTCATCATG	2340
CTTGGTGAAG	GTTGGAGAAC	CTATGCCGGT	GATGAAAACA	TGCCTACTAA	AGCTGCTGAC	2400
CAAGATTGGA	TGAAACATAC	CGATACTGTC	GCTGTCTTTT	CAGATGACAT	CCGTAACAAC	2460
CTCAAATCTG	GTTATCCAAA	CGAAGGTCAA	CCTGCCTTTA	TCACAGGTGG	CAAGCGTGAT	2520
GTCAACACCA	ТСТТТААААА	TCTCATTGCT	CAACCAACTA	ACTTTGAAGC	TGACAGCCCT	2580
GGAGATGTCA	TCCAATACAT	CGCAGCCCAT	GATAACTTGA	CCCTCTTTGA	CATCATTGCC	2640
CAGTCTATCA	AAAAAGACCC	AAGCAAGGCT	GAGAACTATG	CTGAAATCCA	CCGTCGTTTA	2700
CGACTTGGAA	ATCTCATGGT	CTTGACAGCT	CAAGGAACTC	CATTTATCCA	CTCCGGTCAG	2760
GAATATGGAC	GTACTAAACA	ATTCCGTGAC	CCAGCCTACA	AGACTCCAGT	AGCAGAGGAT	2820
AAGGTTCCAA	ACAAATCTCA	CTTGTTGCGT	GATAAGGACG	GCAACCCATT	ТСАСТАТССТ	2880

			610			
TACTTCATCC	ATGACTCTTA	CGATTCTAGT	GATGCAGTCA	ACAAGTTTGA	CTGGACTAAG	294
GCTACAGATG	GTAAAGCTTA	TCCTGAAAAT	GTCAAGAGCC	GTGACTATAT	GAAAGGTTTG	300
ATTGCCCTTC	GTCAATCTAC	AGATGCCTTC	CGACTTAAGA	GTCTTCAAGA	TATCAAAGAC	306
CGTGTCCACC	TCATCACTGT	CCCAGGCCAA	AATGGTGTGG	AAAAAGAGGA	TGTAGTGATT	312
GGCTACCAAA	TCACTGCTCC	AAACGGCGAT	ATCTACGCAG	TCTTTGTCAA	TGCGGATGAA	318
AAAGCTCGCG	AATTTAATTT	GGGAACTGCC	TTTGCACATC	TAAGAAATGC	GGAAGTTTTG	324
GCAGATGAAA	ACCAAGCAGG	ACCAGTCGGA	ATTGCCAACC	CGAAAGGACT	TGAATGGACT	330
Gaaaaaggct	TGAAATTGAA	TGCCCTTACA	GCTACTGTTC	TTCGAGTCTC	TCAAAATGGA	336
ACTAGCCATG	AGTCAACTGC	AGAAGAGAAA	CCAGACTCAA	CCCCTTCCAA	GCCTGAACAT	342
CAAAATGAAG	CTTCTCACCC	TGCACATCAA	GACCCAGCTC	CAGAAGCTAG	ACCTGATTCT	348
ACTAAACCAG	ATGCCAAAGT	AGCTGATGCG	GAAAATAAAC	CTAGCCAAGC	TACAGCTGAT	354
TCACAAGCTG	AACAACCAGC	ACAAGAAGCA	CAAGCATCAT	CTGTAAAAGA	AGCGGTTCGA	360
AACGAATCGG	TAGAAAACTC	TAGCAAGGAA	AATATACCTG	CAACCCCAGA	TAAACAAGCT	366
GAACTTCCAA	ATACAGGAAT	CAAAAACGAA	AACAAACTCC	TATTTGCAGG	AATCAGCCTC	3720
CTTGCGCTCC	TTGGTCTCGG	ТТТСТТАСТА	AAAATAAAA	AAGAGAACTA	AACTAGCCCT	3780
CCTATAGAAA	AATCCCCCAA	GCATTATAGC	TCGGGGGATT	AATTTTTGTA	CAATATTTGT	3840
TGTCCTAATA	AACTTGATTA	GGATTTTTTA	TTAAGCCTCT	TTCATAGCAA	AATAAGCTCG	390
TACTTTGGGT	GCAACTTGTG	TTCCGAAGAG	TTCAATAGCT	CTCAGAACCT	GGTCATGAGG	3960
CATAGAACCA	AGCGGTAGAT	GAAGCATGAA	GCGGTCCAAT	CCTAAATCCT	CTATCATGCG	4020
AATCAATTTT	TCGGCCACCT	GATCTGGATT	GCCAACAAAC	ATGGCGCCAT	TTGGCCCTAC	4080
CTGCTCCAAA	TATTGCTCAT	AACGCAATTC	CTGCCAGTGC	GGACGGTCTT	TGGAAATAGC	4140
ATCCACCACT	TGCTTAGTCG	GATGGAAATA	ATCTTTCACC	GCCTGCTCAC	CATCTTCCGC	4200
AATCCACCCC	CAAGAATGGG	CTCCCACTTT	CAAGTCTTTG	TCAGCATGGC	CCCTTCGCTT	4260
CCAATCTCAC	GATAAGCCTG	AATCAACTTT	TTAAAATAAC	GTGGATTACC	ACCAATAATA	4320
GCATATACAA	TCGGTAGACC	AGCCTGAGCA	ATCTTCACTG	TTGATTCGAC	ATGACCACCT	4380
GTAGCTATCC	ACAAGGGCAA	TTTGTCCTGA	ACTGGACGAG	GATAAACTTC	TTTACCAGCA	4440
ATCGTTTGAG	TCAATCGACC	TTGCCAGTCT	AACTTGGTCT	TTTCATTGAC	TAACTGAAGC	4500
AAGTCTAATT	TCTCATCAAA	AAGAGAGTCG	TAGTCTTTCA	AGTCATAACC	AAACAGAGGG	4560
AAAGATTCCG	TGAAAGAGCC	CCTTCCAGCC	ATAATCTCCG	ATCGTCCATT	TGACAAAGCA	4620
rcgatagtgg	CATACTGTTG	GAACAAACGA	ATCGGGTCCA	TGCTTGACAG	AATGCTGACT	4680

GCACTGGTCA	AACGGATTTT	CTTGGTATTG	ACTGCCCCAG	CGGCCAGAAC	AATCTCTGGG	4740
GCTGATACTG	CAAAATCCGC	CCGATGGTGC	TCACCAATCC	CATATACATC	CAAACCAACC	4800
PTGTCAGCCA	GCTCAATCTC	TGCCACCAAC	TGGCGAATGC	GTTCAGCATG	ACTGTAAGTT	4860
TGTCCAGTCC	CTTCAAGCTC	CGTTATTTCC	CCAAATGTTG	AAATTCCCAA	TTCTACCATT	4920
STGATTCTCC	TTATCTATCT	CTGTACTTCA	ATTTGAAAAA	TTATTCTAAC	ACGAATCTTG	4980
AGTACAAGCA	ACCGATTTGC	TCATTAGAAA	AAGCCTAGAT	AACTAGACTT	TTTTAGCTTA	5040
TTCTACCGTT	ACTGACTTGG	CAAGGTTACG	TGGTTTGTCC	ACATCGAGGC	CACGGTGGAG	5100
GGTTGCAAAG	TAAGCGACTA	ATTGCGTTGG	TACGACCATT	GAAATTGGTG	AGAGGTATGG	5160
ATGTACGGTC	GTAAGGACGA	TATCGTCGGT	ATCTTTGGCT	ACATTCTCTT	CTGCGATAGT	5220
GAGGACTTTG	GCACCACGGG	CTGCGACCTC	TTGGATATTT	CCACGAGTAT	GATTGGCAAG	5280
AACTGGATCT	GACAAGAGAG	CCAAAACAGG	CGTTCCTTCT	TCAATCAAGG	CAATGGTTCC	5340
GTGCTTGAGT	TCTCCTGCAG	CAAAGCCTTC	ACACTGGATA	TAAGAAATCT	CTTTGAGTTT	5400
GAGACTTGCT	TCCATGGCTA	CGTAGTAATC	TTGACCACGT	CCGATGTAAA	AGGCGTTACG	5460
AGTTGTTTCA	AGAAGTTCAC	GAACCTTGAC	TTCAATGGTT	TCTTTCTCTG	AAAGAGTTGA	5520
TTCGATAGAC	TGAGCTACGA	TTGACAATTC	ATGAACCAGG	TCAAAGGCTT	GCGCTTTAGC	5580
ATTACCATTT	GCTTCTCCGA	CTGCTTTTGC	AAGGAAGGCA	AGGGCTGCGA	TTTGCGCTGT	5640
<b>ATAGGCTTTA</b>	GTTGATGCCA	CGGCAATTTC	AGGACCTGCG	TGAAGGAGCA	TGGTATAGTT	5700
GCTTCACGT	GAGAGGGTTG	AACCTGGAAC	GTTTGTCACT	GTTAAGCTTG	GAATTCCCAT	5760
TCATTAGCC	TTGACCAAAA	CTTGACGACT	ATCCGCTGTT	TCACCAGATT	GGCTGATAAA	5820
GATGAAGAGT	GGTTTCTTGC	TGAGAAGTGG	CATACCGTAG	CCCCACTCAG	ATGAGATTCC	5880
AGTTCAACT	GGTGTATCTG	TCAATTCTTC	CAACATTTTC	TTAGAAGCAA	ATCCTGCATG	5940
FTAAGATGTT	CCAGCTGCAA	GGATGTAGAT	GCGGTCTGCG	TCTTGAACAG	CCTTAATGAT	6000
ATCTGGGTCT	ACGACAACTT	GACCAGCCTC	ATCTGTGTAG	GCTTGGATGA	GTTTCCGCAT	6060
ACAGTTGGT	TGCTCGTCAA	TTTCCTTGAG	CATGTAGTAA	GGGTAAGTTC	CCTTACCGAT	6120
ATCTGACAAG	TCAAGTTCAG	CAGTGTAGCT	AGCACGCTCA	CGACGATTTC	CATCATAGTC	6180
TGAACTTCC	ACACTATCAG	CCTTGACGAT	TACCAACTCT	TGGTCATGGA	TTTCCATGTA	6240
TGGTTAGTT	TCACGAATCA	TAGCCATGGC	GTCTGAGCAG	ACCATGTTAT	AGCCTTCTCC	6300
AGACCAATC	AAAAGTGGTG	ATTTATTTT	AGCTACGTAG	ATGACTTCAG	GATCTTGTGA	6360
TCAACCAAG	GCAAAGGCAT	AAGAACCACG	GATGATGTGA	AGGGCTTTTT	TGAAGGCTTC	6420

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AAGAACTGAG	AGCCCTTCTT	CTTCCGCAAA	TTTTCCAATC	AAATGAACGG	CTATTTCAGT	6480
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CTCAATCACC	CCATTATGCA	CCAAGACAAA	ACGTTCCGTC	TCAGAGCGGT	GTGGGTGAGC	6600
ATTGTCCTCA	GTTGGTTTTC	CGTGAGTAGC	CCAACGAGTA	TGTCCGATAC	CAGTTGTTCC	6660
CTCAACACCA	GCTGTCTTGG	CAGACAATTC	TGCAATACGA	CCAACCGCCT	TCACCAAATG	6720
GTTATCAGCA	CCATCTAGGA	CAAAAATTCC	CGCAGAATCA	TAGCCACGGT	ATTCAAGCTT	6780
TTCAAGCCCT	TGAATCAAAA	TATCAGTTGC	ATTTGTGTTT	CCAACAACAC	CAACAATTCC	6840
ACACATAGTA	TATACGACAC	AGGCAAGCTG	TGCTTTCTCC	TTAAAATTGG	TATAGTCTAA	6900
TTCATCTTTT	ATAGAATCAG	CAAAAACAGT	ATATACTTGT	TTCTTTCACT	TGTCAAGAGT	6960
AAAAATTGGT	ATAGTTCAAA	TTAAGCTCCT	GTAAGCATAA	AAACTCTGAC	CGATTGGGAT	7020
AATCAGTCAG	AGTCCTTTTT	AAAATCCATT	ATTATCGCTT	AATTCTTTGA	ACCAGTGGCC	7080
TGATTTCTTC	AGACGACGTT	CTTGCGTTTC	CAAGTCTAAT	TCGACCAAAC	CATAGCGATT	. 7140
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GTTGGCACCA	TCTTCAATGG	CACGGTGAAG	TTCACGAAGA	TGACCTTTTA	CAAAGTCAAT	7260
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ACCATTCTCA	GTCAACATCC	ACTCAATATT	GCCATAATTT	TCCTTGATAT	TTTGGGCGAT	7380
GTCATAAATC	CCTTGCTCAT	AAATCTCCCA	ACCACGGTGA	GAATTGATTT	TACGTCCAGG	7440
CATCACATAA	GGCTCGTAAA	AATGTTCTGG	TAAGAGTGGA	CTCTCTGGAT	GCTTAGCAAA	7500
TCGAGGAGCC	ATAACACGCA	AAGGTTGATA	GTAGTTCACA	CCAAGGAAGT	CCACCGTATT	7560
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CTGAAAAAGG	GCCGCAATAC	GAGCTGCCTT	GACATCAGCA	GGATGCTGGC	TACGTGGATA	7740
AGCCGGTGTC	AAGTTGAGGA	CAATCCCAAT	CTTGGAATCA	GGCAAAAGTT	CATGGCAAGC	7800
CTTAACAGCC	CGGCTGCTGG	CCAATTGTGT	ATGATAGGCT	ACCTTAACAG	CTGCCTCTGC	7860
ATCCACCTTA	TGTGGATAAT	GGGCATCATA	AAAATAACCA	AATTCTACAG	GAACGATGGG	7920
CTCGTTAAAG	GTAATCCATT	GATCCACTAA	ATCTCCATAA	GTCTCAAAAC	AAAAACGAGC	7980
ATAGTCTTCA	TAGGCTGAGA	CTGTCGCCTT	ATTTTCCCAA	CCATCACCAT	CCTCTTGAAG	8040
GGCAAAAGGT	AAATCAAAAT	GATAGAGATT	GACTAACAGA	CGAATTCCTT	TAGCCTTAAT	8100
AGCCTCAAAG	ACCTTACGAT	AAAAATCCAC	ACCTTGAGTG	TTGACTTTTC	CACAGCCTTG	8160
TGGAAAAATC	CGTGACCACT	GAATAGAAGT	CCGAAAGGCT	GTGTGACCAG	TCTCTAACAA	8220

AAGCTCAATA	TCCCGCTCCC	AATTTTCATA	AAAAGTCGAT	GTCTTATCTG	AACCAATCCC	8280
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GTCACCAGCT	ACACGTCCTT	CTGTCTGCGG	TCCAGAAGTA	GAGGATCCCC	AGACAAAATC	8400
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AAAACAAGGT	AAAAACTAGT	TACATTTTT	CCTTGTTTTT	CTTCTGATTA	TAGTTTTTAT	8520
<b>ITCTTGCTTA</b>	GGATTTCAAG	CGTTTCAAGC	ACGTTATCTG	CATGAACCTC	AATGGTGTCA	8580
CCAGTTGCCT	TGATCTTAAC	TTCTACAATG	CCATCGGCCG	CTTTTTTACC	AACAGTGATA	8640
CGGATTGGAA	GACCAATCAA	GTCACTATCG	СТАААТТТАА	CACCGACACG	TTCGTTACGG	8700
<b>PCATCTGTCA</b>	AGACTTCATA	ACCAGCTCCC	ATCAAGCTTG	CTTCAAGTTT	TTCTGTCAAG	8760
CTTCCCCTT	CTTCATCCTT	GACATTGACA	GTAATCAAAT	GCACATCAAA	TGGTGCCAAT	8820
PCTTTAGGGA	AATTGATTCC	CCAAGCGTAA	CGGTATTCAC	CTTTTGGCGT	TTTGTTAACA	8880
AAGAGGCGAG	CGTGTTGCTC	CATCACTGCT	GAAAGAAGAC	GGCTGACACC	GATACCGTAA	8940
CATCCCATGA	TGATTGGCAC	AGCACGACCA	TTTTCATCCA	AGACATCTGC	TCCCATGCTT	9000
GCTGAATAGC	GAGTTCCGAG	TTTGAAAATA	TGACCGATCT	CAATACCACG	CGCAAAGTTA	9060
AGGACACCTT	GTCCATCTGG	GGAAATTTCA	CCCTCACGAA	CTTCACGGAT	ATCCACATAT	9120
PCTGCAGTAA	AATCACGGCC	TGGGTTCACA	CCAGTCAAGT	GGTAGTCATC	TTCGTTAGCA	9180
CCGACAACTG	CATTGCGAAC	ATCTTGTACC	TTACGATCTG	CAATAATTTT	AATATTCTCT	9240
GCAAACCAA	CTGGTCCAAG	TGAACCAAAT	CCTGCTTGAA	CAACATTCGC	CACTTCTTCT	9300
rcgctagcaa	CGTCAAAGAA	ATCTGCTCCC	AAGTGATTTT	TCAACTTGAC	TTCGTTGAGT	9360
rggtcatttc	CAACTAGAAG	GGCTGCAACA	AGCTCACCAT	CTGCAATGTA	GAAGAGGGTT	9420
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rcgtttgttg	CCATTTCTAA	GTTAGCTGCA	TAGCTAGACT	CACTTGAGTA	AGCAATGGTA	9600
CTTCACCAG	AGACTATCCA	TTTGAGCAAT	TCTGCCTTGA	TTTCTTCTTG	CACTTCTGCA	9660
GAATTTCGT	CAAATGAGGC	AACTGACTTG	TCCAAGACAA	CCCAGCGGTC	AAGGTCTGTA	9720
CGAGCAGATG	TAATGGCCAT	AAATTCTTGG	CTATCCTTAC	CACCCATGGC	TCCACCGTCA	9780
CCAATAATAG	CCTTGAAGTC	TAAACCACTA	CGAGTGAAAA	TACGCTCATA	GGCTGCTTTG	9840
PACTCATCAT	AAACACTATC	CAAACTATCA	TAGTTAGCGT	GGAAACTATA	AGCATCCTTC	9900
TGATAAACT	CACGTGTACG	AAGAAGTCCA	TTACGCGGGC	GTTTTTCATC	ACGATACTTG	9960

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GGCTGAATTT	GATAAAGGTT	GAGTGGCAAT	TGCTTGTAAG	ATTTAACAGA	ATCACGGACA	10020
ATAGCTGTAA	AGGTTTCTTC	GTGAGTTGGA	CCTAAGATAA	AGTCTGATTT	TTCACGGTTT	10080
PTTAGTTTGT	AAAGGTCTTC	ACCATAGGTT	TCGTAACGAC	CTGATTCACG	CCACAATTCT	10140
GCACTAAGAA	GGGCTGGAGC	CAACATCTCA	ACAGCACCAA	TCTTTTCGAA	TTCTTGGCGC	10200
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GCTGAAACTT	GGCGAACATA	ACCAGCACGC	AACATAAGAG	CATGGCTGAT	AACTTGAGCA	10320
PCGCTTGGCA	TTTCGCGAAG	CGTTGGGATA	GGCATTTTAC	TTTGTTTCAT	AATATTCCTC	10380
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CGGATGGCTT	CTAGGATATT	GAGCACAATC	TTACCACCAT	CCAAGGCTGG	AATCGGAATA	10560
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CCATTTTTAG	CAGCATCACT	ACTTGCCTTA	AAGATAGCAA	CAGGTCCACC	CAACTTGTTC	10680
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GCAGTTGTAA	AACCACCTAC	AAACATGGAT	AGAAAATCTG	ACTTAACCCC	CGGTTGAACA	10800
CCTAGAAGGT	AACGACCTTG	ACTATCTTTG	GGTGTAACAG	TGACTTGTTT	GTCACTCCCC	10860
PTTTCAGAAA	TAGTCACATC	CAAAGTCGGT	GCCGTCTTAT	CTTTGGTTTC	TGTTTCCACA	10920
CTTGGATCA	AGCTTTCCCA	GTTGCTAACC	TCATGTGAGC	CAATCTTGGT	AATTTGTGCC	10980
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PCAACATCTC	TGACACCACC	CTGCATAAAG	ATTAAAACCC	AAAAAACAAC	GACACCTAAG	11100
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rgatattgaa	CATCTAAAGG	TGCAATCCGA	ACCTCAGTAC	CATCTGCTTC	CACAACCGTT	11220
<b>SCATCGTGAT</b>	CCACTGCAAA	TGTTTTTTCT	TCTTCCAGAA	CCAATCCTTT	GATAAAGAGC	11280
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GCAAGATTC	GAATGGTATA	GGCCGTTCCA	TCCTTGCCAA	TGTGAGCAAA	AATTTTAGGT	11520
CCATACCGA	TGGCAAATTC	ACGTACTAAA	ATCCCTGATT	TCTTGGCAAA	GTAGAAGTGA	11580
CCGAACTCGT	GCACCACTAC	AATAATCCCG	AAAACCAGAA	TAAAGGTTAA	AATTCCGAGC	11640
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TACACTCCCT	AGCTTAAAGT	TTCCTTAAGT	AAAATTTTTAA	ATCAAATTTT	TCCATTTCTC	13500

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CTGCCAATTT	TTCTTGGATA	AACGTGTTTG	ATAGAGTTCC	ATTCGGTCTT	CATTTTCTAA	13560
GAAATGAGGA	GTTGGACGAA	CTTGAAAATT	CAAAATATCC	TCCAAACCAT	AAGGTACATA	13620
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GGACCAATTG	TGGTCGGTGT	CGTTCTTCGT	ATAGTCGATA	AATGGCTAAA	CAAGGACAAA	15240
TAGTGTCAAA	AAAGACCTCA	AGCTTATTTG	GTCGTGAGCT	TGGGGTCTTT	TCTAGCCTAT	15300

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GATATAGAAC	TAGTACTCAA	TTCCTTTTTA	TTATCCCATA	GTTCACGAAT	TTTGTCAAAA	15360
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ГТСТАТСААТ	TTCATAGAAA	TTTTGATTTC	GTAAACGAAG	AGACAATCTT	ACATGTCACT	15480
ГСТСАТТТАА	TACGCCACTA	CTAGACAAGC	AAAATCATTA	TTACAGTAGT	TCCAGTCCTT	15540
CAATTAACAG	TCACTTACAA	TCAAATTGAG	TTTGAACTAG	CTGAAGCGAC	CACAGACCTA	15600
TTTCTTAGTC	ATATTCGCTA	AAAAAATCCC	CGCCAAAATC	TCAAAAAGTC	CCCGCCAATT	15660
CCCGACCAA	AATCCGAAAA	ATACCGAAAA	ATATCGAAAA	ATTATTTTA	GAATAGTCCC	15720
AAAATCCTG	AAATAGAGCT	AAAAAACTCC	ACCTGATTCG	GTGGAGTTAA	GGGAGATTAT	15780
PATGAAAAAG	AAAAGTTTAG	GATTTTATTA	AATAAAGTTA	GGAGGTCTTT	ATTTAATAAC	15840
PACATGATAC	AAGACGAAAC	TTAAAACTAG	CTTAACTTTT	CTAAAATTTT	ACTATTTTGC	15900
AAAAATTTC	TATCACCAGC	ACCTCACCAA	TCGAGTAGGG	GATAATCTCT	AGCCCCTCTC	15960
ACACCACCGT	ACGTGCCGTT	TGGCATACGG	CGGTTCAACT	AACTTTTAAC	GCATGTCGTT	16020
CAAGGTAATA	ATCCAAACAC	GAAACCAGTC	CACGTTTTTC	CAGGACTGGT	TTTGATATAG	16080
CACGTTTAAG	TACCGACTTC	TGAGCTACTA	ATTGATAATG	GTCGCCCCAG	CCAGATACCT	16140
PATCTGCTAT	CCATTTAGGA	ACTCCTAACT	TAAGCAATCC	CCATAATCGT	CTCGATTTCT	16200
CTTCCATTG	CTTCCAGATA	ATCACTCGTA	GGCGAGTACG	CAAGCGCTCA	TCTATGCTGG	16260
GACTATACT	TTTCATATTT	CCCAATGAGC	AATAGTTTAT	CCATCCTCGA	ATAGACAAAT	16320
CAGTTGCTC	AATACGTCTT	GTTAGGTCTA	TACTCCATTT	CCTCTGTGTT	AGTTTCTTCA	16380
TTTAAACTT	AAATCTCCGA	ACACTATCTT	GATGTGGACG	GCTTTTCCAA	CCATCTGATA	16440
TTTCCAGAA	CCCAAAACCT	AGATATTTCA	ACTCTCTTGG	TCATGTTTAC	TTTCAAACCT	16500
GCCGTTTCT	CAATAAACGA	CTGACTGAAT	ACATC			16535

# (2) INFORMATION FOR SEQ ID NO: 75:

- (i) SEQUENCE CHARACTERISTICS:

  (A) LENGTH: 8136 base pairs

  (B) TYPE: nucleic acid

  (C) STRANDEDNESS: double

  (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 75:

CCAGAGCGTT GCGTCCGAAA GTCTATCCAG ACACGGCTCT TTAAAAACAA AAGGAGAAAT 60 GATGCATACT TATTTGCAAA AGAAAATTGA AAATATCAAA ACAACCCTAG GTGAAATGTC 120

			618			
AGGTGGTTAC	CGTCGTATGG	TTGCGGCTAT	GGCTGATTTA	GGATTTTCAG	GAACTATGAA	18
GGCTATCTGG	GATGACCTCT	TTGCCCATCG	TAGTTTTGCC	CAGTGGATTT	ATTTGCTGGT	24
TTTAGGAAGT	TTTCCTCTCT	GGCTGGAGTT	GGTTTACGAA	CATCGTATTG	TTGACTGGAT	30
TGGGATGATT	TGTAGCTTGA	CAGGGATTAT	CTGTGTAATC	TTTGTATCGG	AAGGTCGAGC	36
AAGTAATTAT	CTTTTTGGCT	TGATTAACTC	TGTTATTTAC	CTTATTTTGG	CCCTACAGAA	42
AGGCTTTTAT	GGTGAGGTGC	TGACGACACT	TTACTTCACA	GTCATGCAGC	CAATTGGACT	48
TCTAGTTTGG	ATTTATCAGG	CACAGTTTAA	GAAGGAAAAG	CAGGAGTTTG	TCGCGCGTAA	540
ACTGGACGGC	AAGGGCTGGA	CAAAGTATCT	TTCCATTAGT	GTGCTTTGGT	GGTTGGCCTT	60
TGGCTTCATT	TATCAGTCTA	TTGGTGCCAA	TCGTCCCTAT	CGTGATTCAA	TCACAGATGC	660
AACCAATGGG	GTAGGGCAAA	TCCTCATGAC	AGCTGTTTAC	CGTGAACAGT	GGATATTCTG	720
GGCGGCTACC	AATGTCTTTT	CAATCTATCT	CTGGTGGGGA	GAAAGCCTGC	AAATTCAAGG	780
GAAATATCTA	ATTTATCTCA	TTAACAGTCT	AGTTGGTTGG	TATCAATGGA	GCAAGGCAGC	840
TAAGCAGAAT	ACTGATTTAC	TTAACTAGGA	AAAGATGTTT	GAAAGTGCTG	TTTTGAGATT	900
TCGATTAAAA	CAGATATAGT	TGATAATCAA	GGATTTATAG	TATGAAAAAG	AGGATCGGCG	960
GGTCCTCTTT	TGTTGTTGAA	AAGATAAAAA	ACTCAGTAAC	CTAGAAATAA	GACAACTGAA	1020
GCTTTACTCT	ATATTCAATT	TTTAGGAATG	AGAAGGTCTA	GATAAAATTG	GACAACTTCC	1080
rggtctgtga	AATCTTGACC	TTTTTTGAGC	CACCAGGTCA	ATGTCTCGAT	AAAGTTGGAC	1140
ATGACCAAGT	GTTGGAGGTA	AGAAGTAGGC	AGATTAGGGT	GGGCTTCTTT	TAAATTATCA	1200
GCTAGCACGG	AATAGACATG	GTGTTCTAGC	TCTTTATGGA	GTTGACGGAG	GAAGTAGTCA	1260
PTTTTGGAAA	ATAGCAGACT	GGTGATATGG	TCTTGGTTTT	TATGAAAATG	GAGAAAGAGG	1320
rgggcgaggt	AGTCCTCGGT	TGAAATGGCT	TGCTCTCTTT	CAAAAAGATG	ATGGAAGAGG	1380
PAGCGGCAGA	GCTGGTCCAG	AAGAAGCTCC	TTACTCTCAT	AGTGACAGTA	AAAGGTGGAT	1440
CGTCCCACAT	CTGCGAGATC	AATGATATCC	TGAACAGTAG	TGGCCTCGTA	GCCCTTAGCA	1500
TTCAAAAGTT	GTATAAAAGC	TTGATAGATG	GCTTTTTTGG	TTTTGCTGAT	ACGGCGGTCA	1560
ATGTTAGTCA	TATGGACACT	TAAGGCAAAT	TGTTCAGAAC	TGAATAAAGC	TGACGTTTTG	1620
CTTCTATCCT	TTCTTTGAGT	TTTAGTGGAT	AATGATAATG	AACAAGGTGT	TCATAAATCT	1680
TTATAACAA	aggaatgaga	AATATGAAGG	CAAAATATGC	TGTTTGGGTG	GCTTTTTTCT	1740
PAAATTTGAC	TTATGCCATT	GTTGAGTTTA	TTGCAGGTGG	AGTATTTGGT	TCTAGCGCTG	1800
TCTTGCTGA	CTCTGTGCAT	GACTTGGGAG	ATGCGATTGC	AATTGGAATA	TCAGCTTTTC	1860
AGAAACAAT	<b>CTCCAATCCT</b>	GAAGAAGACA	<b>አ</b> ጥሮልርምልሮልሮ	CIMICCCCMAIN	A A C C C C C C C C C C C C C C C C C C	1000

GCCTGCTAGG	AGCCTTGGTA	ACAGCTGTGA	TTCTCGTAAC	GGGCTCTGTT	CTAGTCATTT	1980
iggaaaatgt	CACGAAGATT	TTGCATCCGC	AACCAGTCAA	TGATGAGGGG	ATTCTCTGGT	2040
<b>PAGGAATTA</b> T	TGCGATTACT	ATCAATCTGT	TAGCGAGTCT	GGTGGTTGGT	AAGGGAAAGA	2100
CAAAGAATGA	GTCTATTCTG	AGTCTGCATT	TTCTGGAAGA	TACGCTAGGG	TGGGTAGCTG	2160
PTATCCTGAT	GGCGATTGTT	CTTCGATTTA	CGGACTGGTA	TATCCTAGAT	CCTCTTTTGT	2220
CCCTTGTCAT	TTCTTTCTTT	ATTCTTTCAA	AAGCCCTTCC	ACGTTTTTGG	TCTACACTCA	2280
AGATTTTCTT	GGATGCTGTG	CCAGAAGGTC	TTGATATCAA	GCAAGTAAAG	AGTGGCCTGG	2340
AGCGATTGGA	CAATGTGGCC	AGCCTTAATC	AGCTTAATCT	CTGGACTATG	GATGCTTTGG	2400
AAAAAAATGC	CATTGTCCAT	GTTTGTCTAA	AAGAAATGGA	ACATATGGAA	ACTTGTAAAG	2460
AGTCTATTCG	AATTTTCCTA	AAAGATTGTG	GTTTTCAAAA	TATTACCATT	GAAATTGATG	2520
CTGACCTAGA	AACTCACCAA	ACCCATAAGC	GAAAGGTGTG	TGACTTGGAA	CGGAGTTATG	2580
AGCATCAACA	TTAGAAAAA	GTGAAAAATA	CTTGGGTACT	ATCTTATTTG	GAATAGAGTA	2640
ATTTCTTTAT	TATTTAAATA	TTTCAAAAAT	TGGTAAGAGA	AGAGCATTGT	ATAAACTCCA	2700
GATATATGAT	TGTTAATGAT	AAAAATTTTT	CGATTAGATA	CAAAATGCTT	GACTTGGAGT	2760
CAACTCAAAG	ТТАТАТААТА	AGATAAGTGA	GTTAGAATAG	CGTGAATTCA	GTGAATGAAA	2820
rgagaggagg	TTAGCGTGTG	TAAATTAAAT	CTGCCAGTGA	TTTGTTGGGA	ATTTCAGCGG	2880
ATACGATTCG	GTATTATGAA	CGGGTTGGTC	TTGTGCCACC	GATTACTCGT	ACTGCTACTG	2940
GATTCGTGA	TTTTCAAGAT	CAGGATATCG	AAGCGCTGGA	ATTTATTAAG	TGTTTTCGTT	3000
CGGCGGGTGT	CTCTGTAGAT	AGTTTAGTTG	ACTATATGTC	GCTCTACCAA	AAGGGAGATG	3060
AACGAGAGA	GGAGAGGCTT	GGTATTTTAG	AAGAGGAAAA	GCAAAAATTA	GAGGAGCGCT	3120
<b>PGTCTCAGCT</b>	ACAGACAGCT	TTAAATCGTT	TAAATCTCAA	AATTAAACTT	TATAAGGAAG	3180
ATTTTA	AATGAAATCA	GCAGTATATA	CAAAGGCAGG	TCAGGTTGGA	CTTGCTAGCA	3240
TTGAACGTCC	GCAAATAATA	GAAGCGGATG	ATGTGATTAT	TCGTGTGGTT	CGTGCGTGCG.	3300
TTGTGGTTC	AGATTTATGG	AGGTACCGTA	ATCCAGAAAC	GAAAGCTGGA	CACAAAAATA	3360
TGGACACGA	AGCGATTGGG	ATTGTTGAAG	AAGCTGGGGA	AGCCATTACG	ACGGTGAAAG	3420
CAGGTGATTT	TGTGATTGTC	CCTTTTACAC	ATGGATGTGG	TGAGTGTGAT	GCCTGTCTTG	3480
TGGATTTGA	CGGTTCTTGC	GACAATCATA	TTGGCAATAA	TTTGGGGGGT	GATTTTCAGG	3540
CAGAATATAT	TCGCTTCCAC	TATGCAAACT	GGGCGCTGGT	TAAAATCCCT	GGTCAACCTT	3600
TGACTATAC	AGAAGGGATG	CTCAAGTCCC	TTTTGACTCT	TGCAGATGTC	ATGCCGACAG	3660

			620			
GCTATCATGC	GGCGCGTGTT	GCAAATGTTC	AAAAAGGGGA	CAAGGTTGTT	GTTATCGGTG	3720
ATGGGGCTGT	TGGTCAATGT	GCTGTCATCG	CGGCTAAGAT	GCGTGGAGCA	TCACAAATTA	3780
TCCTTATGAG	CCGTCATGAA	GACCGTCAAA	AGATGGCTAT	GGAGTCAGGT	GCGACAgcTG	3840
<b>PTGTTGCAGA</b>	ACGTGGTCAA	Gaaggaatta	CCAAGGTGCG	TGAAATCCTC	GGTGGAGGAG	3900
CAGATGCAGC	ACTTGAATGT	GTTGGTACGG	AGGCTGCTAT	AGAACAGGCG	CTAGGTGTTC	3960
ITCATAATGG	AGGGCGTATG	GGCTTTGTAG	GAGTCCCACA	СТАТААТААТ	CGTGCTCTTG	4020
GTTCGACATT	TATGCAAAAT	ATCTCTGTAG	CAGGTGGGGC	AGCTTCTGCT	ACAACATACG	4080
ATAAGCAATT	TTTACTAAAA	GCCGTCCTTG	ATGGTGATAT	CAATCCAGGT	CGCGTCTTTA	4140
CTTCAAGTTA	TAAACTGGAA	GATATCGACC	AAGCCTATAA	AGATATGGAT	GAACGTAAGA	4200
CAATTAAGTC	TATGATTGTA	ATCGAATAAA	AAACGAATAG	GAGTTTTAGA	ACTCTATTCG	4260
TTTTTTATGT	TATCCTATTC	TTGATTTAGG	GTACTTTCTC	TTAATGTCAG	TCTGGTTCCC	4320
AGCATGGTCA	GGCTAGGGAT	TTTCCGACCG	TGGAGGACTT	CCTTGTTAAG	AATATCCATA	4380
CTGCTCGGC	CCATTTCTTC	AGTATAAACT	GTAATACTAG	AGAGGGGAGG	ATAGACCTGT	4440
TTGGTCAGAC	TAGTGTCGTT	AAAGGAAATG	AGGCTGACGC	GATCTGGCAG	GCTGATTCCA	4500
<b>CTTCTTGGA</b>	GGGCACGGAG	GGCACCGATA	GCTAAACTAT	CGCTGGCTGC	GAAAAATGCT	4560
GCGGAAGTT	GGTCTCCCAA	GCTCTGAATG	GCCTCCTTCA	TTAAGTCATA	GCCAGACTGG	4620
GCAGTAAATC	TTCCTTGAAA	GACCAGTTCA	TCATGATAGA	TTCCCCTCGC	TTGACTATAG	4680
TTTTTGAAGT	TTTCTAGACG	CTTGTCCTGA	ATGATTTCTT	CTTGGTCTGT	TGTTTCTTCA	4740
AGGCCTGTTA	GAATCCCGAT	ACGGTCCATT	CCTTGACTGA	GGAAATAATC	GACAACCTGT	4800
TCATAGCAG	TGTAAAAATC	CGTGATAATA	CAGGTATGTC	CCAGGGAAAG	TGTATCGCTG	4860
CTAGAAATA	CAAGAGGCTT	TTGGTATTCT	TCAAAGGCAG	AAATCTGAGC	TCGACTAAAC	4920
TTCCGATGC	AGAGAATCCC	AATCACTTCC	TCGCTTAGGG	TAAAAGGGTG	GTCATTAAAA	4980
AGCGCAAGA	TATCATAGTC	CAACTCTTGG	GCTCTTTTTT	CTATTCCTAG	GCGAATCTGG	5040
PAGTAGTAGA	GGTCGTCCAG	CTCCCCTTGT	TCGCTGACCC	ATTGGATAAT	GGCAATCTTT	5100
CCTTGGGTT	TGTGGGACTC	GCCTGTCTTG	AGGTGCTTGG	TGTAGCCCAG	CTCTTCAGCA	5160
CGGTTAAAA	TACGGTGTCT	GGTTTCTTCT	GTAACAGATA	GGCTCTGGTC	GCGGTTGAGG	5220
CGCGGGATA	CGGTCGCGAT	AGAGACAGAG	GCTAGCTGTG	CAATGTCTTT	TAAGGTAGCC	5280
TAAATCCTC	CTTGATTAGG	TTAGTATATC	ATGTTTTTCT	TCTTTTTACT	GATATTTTAC	5340
'AAAATTTTA	GTAAAAAGGA	TTGACCTTGG	AAAATTCCTT	GGATATAATA	GAAAGAAAAC	5400
ATTACACGT	TAAGATGGCT	TAACGGACAG	TCAAAGGAGA	ATTCATATGG	CACAACATCT	5460

TACTACTGAA	GCCCTTCGCA	AAGACTTTCT	TGCTGTTTTT	GGTCAAGAAG	CAGATCAAAC	5520
СТТСТТТТСА	CCAGGCCGCA	TTAATTTGAT	TGGTGAACAC	ACAGACTACA	ACGGTGGGCA	5580
CGTTTTTCCT	GCTGCTATTT	CCTTGGGAAC	TTACGGTGCA	GCTCGTAAGC	GTGACGACCA	5640
AGTCTTGCGT	TTCTACTCAG	CTAACTTTGA	GGACAAGGGC	ATTATCGAAG	TGCCTCTCGC	5700
TGACCTCAAG	TTTGAAAAAG	AGCACAACTG	GACCAATTAT	CCAAAAGGTG	TCCTTCATTT	5760
CTTGCAAGAA	GCTGGGCACG	TGATTGACAA	AGGTTTTGAT	TTTTATGTTT	ATGGAAATAT	5820
TCCAAATGGT	GCTGGCTTGT	CTTCTTCTGC	ATCCTTGGAA	CTCTTGACAG	GAGTCGTGGC	5880
TGAGCATCTC	TTTGATTTAA	AATTAGAGCG	TCTCGATTTG	GTTAAAATCG	GCAAACAAAC	5940
AGAAAACAAC	TTTATCGGAG	TAAACTCTGG	CATTATGGAC	CAGTTTGCTA	TTGGTATGGG	6000
GGCAGACCAA	CGTGCTATTT	ACCTAGATAC	TAATACTTTA	GAATACGACŤ	TGGTGCCACT	6060
TGATTTGAAG	GACAATGTCG	TTGTTATCAT	GAACACCAAC	AAACGCCGTG	AATTGGCGGA	6120
СТСТАААТАС	AATGAACGTC	GTGCTGAGTG	TGAAAAAGCA	GTGGAAGAAT	TGCAAGTTTC	6180
CTTGGATATT	CAGACTCTGG	GTGAATTGGA	CGAGTGGGCC	GTTGACCAAT	ATAGCTATCT	6240
GATTAAAGAT	GAAAATCGTT	TGAAACGTGC	TCGCCATGCT	GTGCTTGAAA	ACCAACGTAC	6300
CCTCAAAGCT	CAAGTAGCAC	TCCAAGCAGG	AGATTTGGAA	ACATTTGGAC	GCTTGATGAA	6360
TGCGTCACAC	GTTTCTCTGG	AGCATGATTA	TGAAGTAACT	GGTTTGGAAT	TGGATACCCT	6420
TGTTCACACA	GCTTGGGCAC	AAGAAGGAGT	TCTCGGTGCT	CGTATGACAG	GGGCTGGTTT	6480
TGGTGGCTGT	GCcATTGCCT	TGGTTCAAAA	AGATACTGTT	GAGGCCTTTA	AGGAAGCTGT	6540
AGGCAAACAC	TACGAGGAAG	TAGTTGGATA	CGCTCCAAGC	TTCTATATCG	CTGAAGTTGC	6600
AGGTGGCACT	CGCGTCCTTG	ACTAGTCAAA	AGGAGGCTCT	ATAGTGACCT	TAGTAAATAA	6660
ATTTGTAACA	CATGTCATTT	CTGAAAGCTC	ATTTGAGGAA	ATGGATCGAA	TCTATCTGAC	6720
CAATCGTGTT	TTGGCACGAG	TGGGAGAAGG	TGTTTTGGAA	GTTGAGACCA	ATCTGGATAA	6780
ATTGATTGAC	CTCAAGGACC	AGCTGGTTGA	AGAAGCCGTT	CGATTAGAGA	CGATTGAGGA	6840
TAGTCAGACT	GCGCGTGAAA	TCCTTGGTGC	TGAACTGATG	GATTTGGTGA	CTCCTTGTCC	6900
AAGTCAGGTC	AATCGTGATT	TTTGGGCAAC	CTACGCCCAC	TCTCCAGAAC	AAGCGATAGA	. 6960
GGATTTTTAC	CAACTCAGTC	AGAAAAATGA	CTACATCAAA	CTCAAGGCCA	TTGCTAGAAA	7020
TATCGCTTAT	CGTGTTCCAT	CTGACTACGG	AGAACTTGAA	ATTACCATCA	АТСТСТСТАА	7080
GCCTGAAAAA	GATCCCAAAG	AGATTGTGGC	AGCCAAGTTG	GTGCAAĞCTA	GTAATTATCC	7140
TCAGTGTCAG	CTTTGTCTAG	AGAATGAGGG	CTACCATGGT	CGAGTTAACC	ACCCAGCTCG	7200

TAGCAATCAC	CGTATTATCC	GTTTTGAAAT	622 GCTTGCTCAG	GAATGGGGTT	ጥር ርጉልር ጥልጥጥር	7260
	•	AGCATTGTAT				7320
CATTAGTCGT	CAGAGTTTTG	AACGTCTGTT	GGCTATCGTA	GACCAGTTTC	CAGGATATTT	7380
TGCTGGATCT	AATGCCGACC	TGCCGATTGT	GGGGGGCTCT	ATTCTAACTC	ATGATCATTA	7440
TCAGGGAGGC	CGTCACGTAT	TTCCTATGGA	ATTGGCTCCC	TTGCAAAAGG	CCTTCCGATT	7500
TGCTGGTTTT	GAGCAGGTCA	AGGCTGGAAT	TGTCAAGTGG	CCCATGTCTG	TCCTACGTTT	7560
GACTTCGGAT	TCCAAAGAGG	ATTTGATCAA	TTTGGCTGAT	AAGATTTTGC	AGGAATGGCG	7620
CCAGTATTCA	GATCCTGCAG	TGCAGATTTT	GGCAGAGACA	GACAGGACAC	CGCATCACAC	7680
TATCACACCC	ATTGCCCGCA	AACGCGATGG	ACAGTTTGAG	TTGGACTTGG	TCTTGCGAGA	7740
CAATCAGACT	TCAGCAGAGT	ATCCTGATGG	TATCTATCAT	CCCCACAAGG	ATGTCCAACA	7800
TATCAAGAAG	GAAAATATCG	GCTTGATTGA	GGTCATGGGC	TTGGCAATCT	TGCCACCACG	7860
TCTGAAAGAA	GAAGTGGAGC	AAGTCGCTAG	CTATCTTGTA	GGAGAAGCTG	TTACAGTTGC	7920
CGATTATCAT	CAGGAGTGGG	CAGACCAACT	CAAATCCCAA	CATCCAGACT	AACGGATAAA	7980
GAAAAAGCCC	TTGCAATCGT	CAAGGACTCT	GTGGGTGCTA	TCTTTGCGCG	TGTACTTGAG	8040
GATGCAGGAG	TCTACAAGCA	GACAGAACAA	GGGCAGACAG	CCTTTATGCG	CTTTGTGGAA	8100
CAGGTCGGAA	TTTTACTAGA	CTAGGAGCTT	TCTCGG			8136
(2) INFORM	ATION FOR SE	EQ ID NO: 76	5:			

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 10011 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double
   (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 76:

CCCATAGTGA	AGAGTGGCCA	TAAGAAGGTC	TTCTAGGCTT	AATTTAGGTT	TTCGTCCACC	60
TTTTGCGTGT	TTAAGTTGAT	AAGCTGTTTT	TAACACAGCT	GAACATCTCT	TCAAAAGTCG	120
TGCGCTGAAC	ACCAACAAGA	CATTTAAATC	GTGTATCAGT	TAGTTGTTTA	CTTGCTTCAT	180
CATTCATAGA	ACTACTATAC	CATGTTTTGT	TTCGCAGGAA	GTCTAATATT	GTCAAATACT	240
GGAACGCTCA	TTGCTGGGAT	ACGGAATAAG	ATTGGCCCAG	CTTCGATAAC	TGGGATACCT	300
GGTTCAAAAC	CAAGGTCTGT	TGCAGCGATT	GGTGTAAAGA	TATCGTAACC	TTTCATAAGG	360
TCTTCGTTTA	CATCTTTCAC	CATAACTGCA	TCACAGTGAA	CATCGTAACC	ACGGTTTGAA	420
AGTTCTTCTT	CTAGAGCACT	TTTAATTTGG	TGACTTGAGT	TAACACCTGC	ACCGCAGGCA	480

CAAGAATTT	TAATCATTTG	GATTTCCTCC	GATTTTATTT	TTTAATAGAC	AAGATTAAGC	540
GTTGCTTCA	GCAATGTAAG	CATAAAGGGC	TTCTGGTTCA	GAAATTTTTG	ATAGGTCTTC	600
AGATGACCA	TTTCCTGTGA	AGAAGTCCAT	TAACTGAGCA	AGAATGTTCG	TTTGACTTGA	660
CTTGAATTA	TTGATGATAA	AGAAGAGCAA	GGATACTTCT	ACTTCCTTAC	CTGGCGCAAT	720
:ATATTATGG	AAAGTCACCG	GTTTCTCTAA	TCGAACAACC	ACCACTTTCT	CAGCTAGATT	780
TGAACAATA	TCTGTGTGAG	GAATCATTAC	ATTTGCAAGT	CCTTTCCTAG	AAATTCCATA	840
'ATAAACCAG	TTGGAAATGA	CTTTTCACGC	GTGATCAAGG	CTTCACGATA	AGTTGGAGTG	900
CAATTTCTC	GTTCTTCCAA	CAAGCTTGCT	ACCTGATCAA	AAAGTTATTC	TTGATTATCC	960
CTTCTAAGC	AAAACACAAG	GTTTTTGTCA	AAGAAATAAT	CTAATACCAT	AAGGTTTTCC	1020
TTCTTTCCA	TTAACTTTAT	GCTATAAGTA	TAACACTATA	TGAAATCGTT	GTTAATTACT	1080
TCTATTCTT	TTTTGTCTCT	TTTTTTATAT	TTTTGTTTTG	TTTATAGTTT	GTTATATAAA	1140
ATAAACACA	CAAACAAATA	CTCCAAGCAT	TTTTCTGTTC	TAATACTCAA	TGAAAATCAA	1200
GAGCAAACT	AGGAAGCTAG	CCGCAGTTGT	TCAAAACACA	GTTTTGAGGT	TGTAGATGAA	1260
CTGACGAAG	TCACTCAAAA	CATGGTTTTG	AGGTTGTAGA	TGAAACTGAC	GAAGCAACAg	1320
CATACATAC	GGTAAGGCGA	CGCTGACGTG	GTTTGAAGAG	ATTTTCGAAG	AGTATAAAAA	1380
TAAAAAAGC	AGACCATCTA	AGCCTGCTTT	ACTATTGATT	CTTATATAAA	TTTCCTGTGA	1440
CAAGGAAAG	GCATTTCTGA	TAACTTATTC	TTCATCCATA	CTCAAGACGC	TGAGGAAGGC	1500
TCTTGCGGA	ACTTCAACTG	ATCCGATGGA	TTTCATGCGT	TTCTTACCAG	CTTTTTGTTT	1560
TCAAGGAGT	TTACGCTTAC	GAGAAACGTC	ACCACCATAA	CATTTAGCAA	GTACGTTCTT	1620
CGAAGGGCC	TTGATATCAG	TACGAGCGAC	AATCTTGTGT	CCAATAGCCG	CTTGGATTGG	1680
ACTTCAAAT	TGTTGGCGAG	GGATGATTTT	CTTGAGTTTA	TCAACGATGA	GTTTCCCACG	1740
TCGTAGGCA	AAGTCCTTGT	GAACGATAAA	GCTGAGGGCA	TCCACCTTAT	CTCCATTGAG	1800
AGAATATCC	ATTTTCACCA	GCTTAGATGG	GCGATATTCT	GACAATTCGT	AGTCAAAGCT	1860
GCATAACCA	CGTGTCGAAG	ACTTAAGTTT	ATCAAAGAAG	TCAAAGACAA	TTTCAGCAAG	1920
GGAATTTGA	TAGATAACAT	TGACACGGTT	ATCATCAATA	TAGTCCATAG	TCACAAAGTC	1980
CCACGCTTA	ĆGCTGAGCTA	GCTCCATTAC	TGCTCCGACG	AACTCCTGTG	GTACCATGAT	2040
TGCGCCTTG	ACATAAGGCT	CTTCAATGGT	CGCAATCTTA	GTTGGGTCTG	GAAACTCAGA	2100
GGGTTAGAC	ACATCCATAG	ACTCACCGTC	GGTCAAATTA	ACTTTGTAAA	TAACAGACGG	2160
GCTGTCATG	ATGAGGTCAA	TATTGAACTC	ACGCTCTAAA	CGTTCCTGGA	ТААСАТССАТ	2220

			624			
ATGGAGAAGT	CCAAGAAATC	CACAACGGAA	ACCAAATCCA	AGTGCCTGAG	ATGTTTCTGG	2280
TTCAAACTGA	AGACTAGCAT	CATTCAGTTG	CAATTTTTCA	AGCGCTTCAC	GCAGGTCATT	2340
GTACTTGTTT	GATTCGATTG	GGTAGAGACC	CGCAAAGACC	ATAGGATTCA	TCTGCTTATA	2400
ACCATGTAAT	GGTTCTGCCG	CAGGATTGGT	TGCCAAGGTA	ACGGTATCAC	CCACACGAGT	2460
ATCCTGAACC	GTCTTGATAG	ACGCCGCAAT	GTAACCAACA	TCACCAGTCG	CAAGGAAATC	2520
ACGACCAACC	GCTTTTGGTG	TAAAAATACC	GACTTCGGCC	ACATCAAAGG	TCTTACTATT	2580
GCTCATGAGC	TGAATCTTAT	CACCAGGTTT	GACCACTCCG	TCCATGACAC	GCACTTGGAG	2640
GATAACCCCA	CGGTAAGCAT	CGTAAACAGA	GTCGAAAATC	AAGGCCTTAA	GTGGCGCCGT	2700
CACATCACCC	GTTGGTGCTG	GTACTTTTTC	TACAATTTGC	TCGAGGATTT	CTTCAATCCC	2760
AATACCAGCC	TTGGCAGAAG	CCAAAACTGC	TTCACTGGCA	TCCAAACCAA	TCACATCTTC	2820
AATCTCTGTA	CGCACGCGCT	CCGGATCTGC	AGCCGGCAGG	TCAATTTTAT	TAATGATAGG	2880
CATGATTTCC	AAATCATTAT	CCAAAGCCAG	ATAAACGTTG	GCAAGAGTTT	GAGCCTCAAT	2940
TCCTTGAGCC	GCATCGACCA	CCAAAATAGC	ACCCTCACAG	GCAGCTAGCG	AACGTGAAAC	3000
TTCATAGGTA	AAGTCAACGT	GCCCTGGTGT	GTCAATCAAG	TGGAAAATAT	AAGTTTCCCC	3060
ATCTTTTGCA	GTGTAATTCA	ACTCGATGGC	ATTCAACTTA	ATAGTAATTC	CACGTTCCCG	3120
CTCTAGCTCC	ATGCTATCCA	AAAGCTGGGC	CTGCATTTCA	CGACTTGAAA	CCGTCTCTGT	3180
TTTTTCCAAA	ATGCGGTCTG	CTAGAGTTGA	TTTTCCGTGG	TCAATATGGG	CGATAATAGA	3240
GAAGTTACGG	ATCTTCTCCT	GTCGTTTTTT	CAATTCTTCT	AAGTTCATGA	TTCTCTTCCT	3300
TTCAGGGTAT	CTATTTATTA	TAAATTGTTT	TTGATATTTT	GACAAGACCA	TACCCTGCTA	3360
GGAGTACTAA	TCTTCAGCGA	CAAAGCCGTC	ATTTTCGATA	AAGTGGTGTT	CTGTCATTCC	3420
TTGGTCTGTA	AAGACAATCC	CGTGAAGGAC	ACCACCATAA	ACAGCTCCTC	CATCCATTCC	3480
AATCTTGCCA	TCTTCTGTAG	TCCAAAGCTC	AGATGTACCG	CGTTCTTGCT	GTAACAAACC	3540
ATAGACCGGT	GTATGACCGA	AGACAATGGT	TTTTCCAGTA	TGATTTTCAG	CTCCGTGGAA	3600
TGGTTTTCTA	AGCCATACTT	TTTTATAATC	TGTTGTTTCA	TGCCAGTCGT	CCAAGGTCAA	3660
ATCAATACCT	GCGTGAACAA	AGATATACTT	GTCTGTCTCT	ACTACAAATG	GCATTTGACG	3720
AATGAATTCG	ACCAAGTCTG	CCGCTTCAGC	GgCAACCCGC	TTGGCATCTT	CTACTCCATC	3780
AACTGGTGCA	TCCAAGGGAC	GACCTAGGAT	AGAGTTAATG	GTTGTATCTC	CACCATTGCG	3840
ACTATAATGG	TCATAACTTT	CTTCTGGGTC	ATCTAGCCAA	GTCAAAAACA	TATACTCGTG	3900
GTTTCCGGAC	AAACAGATAG	CCCCTTGATT	GTCCACCAAG	TCCTTGACCA	TTTCAAGAAC	3960
ACGGTGACTA	TCCTCACCTC	TGTCAATCAA	ATCACCTAGA	AAGAGCAACT	GGGGCTGACC	4020

ATCCCAGGT	T TTGAGAAGGT	CTTCCAGCAT	CCCAGCTTTT	CCGTGAACAT	CTCCAATTAC	4080
ATAATAATC	T GTCATCTTAT	TTCTCCCTGT	TTCTCAACAA	TTCTCTTGCT	TGCGTCAGGG	4140
CTGCTTCTG	T CACATCATCA	CCTGCCAACA	TCTTGGCAAC	TTCCTCCACT	CGCTCTTCGA	4200
CCGTCAAGA	G ACGAACAGTC	GAAACCGTTG	AATGGTCATT	ACTAATCTTC	TCAATAAAGA	4260
ATTGATAAT	C TGCAATCGCA	ATTACTTGTG	GCAAATGGGA	GATAGCCAAA	ACCTGACCAT	4320
GCTGACCAA	т тттатсаатт	TTCTGAGCAA	TAGCTTGAGC	AACACGACCT	GAAACTCCCG	4380
TATCCACCT	C ATCAAAGACA	ATGCTAGTCT	TGCCTTCTTT	ACGTGAAAAG	GCAGACTTAA	4440
TGGCTAACA	T GAGACGAGAT	AATTCCCCTC	CAGAAGCAAC	CTTAACCAAG	GGTTTAAAGT	4500
CTTCTCCAG	g 'gttggttgaa	АТАТААААСТ	CAACCATTTT	ATTTCCCTCA	CGACTGAATT	4560
TTCCCTTAC	T AAAACGAACC	TGAAACTGGG	CTTTTTCCAT	ATAAAGATCT	TGCAGTTCTT	4620
GTTTAATCT	C AGCTTCGAGT	TGCTGAGCCA	AATTATGACG	AGCAGAAGCA	AGTTGACCTG	4680
CCAAATTGA	C AAGATTGACT	TCCAACTTCT	TAAGCTCTGC	TTCCATGTCC	TCAGACGAAA	4740
GATTATTGC	C TGTCAAGAGA	TTGTATTCTT	CCGTAATCTT	GGCAAAATAA	AGCAAAACAT	4800
CATCAACAG	T CCCACCATAC	TTACGAGTAA	TAGTATGAAG	GAGGTCCAAA	CGATTCTCAA	4860
CCTGCATCA	G GCGATTGCCA	TCAAAATCAA	GGTCCTCAAT	GATAGCTTCC	AAACGTTTGC	4920
TAATGTCTT	C TAAAACATAG	TAGGTCTCAG	ACAGATAGCT	TGAAATTTCA	CGGTATTCAG	4980
GATCATACT	C TTCGACACTT	TCCATGTCAT	TCATAGCTGA	ACGAACATTG	GCCAGACTTG	5040
aaaaatctt	C ATTGTCCAAC	ATACTGTAGG	CATTGGTCAG	TGTATCCGCA	ATATTTTTGT	5100
GGTTGAGGA	G TTTATCTCGC	TCTTGATTGA	GAGCCAAGTC	TTCTCCAGCC	TGCAAGTTTG	5160
CTGCCTCAA	T CTCTGCCATT	TGAAATTCCA	ACATTTCGAT	ACGTGCCTTG	TGTTCCTGTT	5220
GGTTTTTCT	T GACTTCCAGA	ACCTGCTTGC	GCATTTTCCG	ATAGGCATCA	AAACTCGTTT	5280
GATAGGTTT	C TTTCAAGTCC	CAAAAAGCGG	CATCACCAAA	TTCATCCAAC	ATCTGGATAT	5340
GCAGTTGGG	G ACGCATTAAC	TCCTCATGGT	CATGCTGACC	ATGAATATCT	ACAAGATGTT	5400
GCCCAATAG	C TCGCAAAACA	GACAGATTAA	CCATCTGACC	ATTTACACGG	CTGATACTAC	5460
GACCATTTT	G CAAGATTTCC	CGACGGATGA	TAATTTCATC	ACCTAATTCT	AAACCTTGCT	5520
CATCAAAAA	T TTCCTGTAAA	AGACGACTAT	TCTCAACTGA	GAAAAGCCCC	TCAATCTCTG	5580
CCTTTGGTG	C ACCATGACGA	ATAACATCTG	TCGTCGCACG	AGCTCCCAAC	ATCATATTCA	5640
rggcatcaa	T GATAATCGAC	TTCCCTGCAC	CCGTTTCACC	AGTCAGGACA	GTCATCCCCT	5700
тааааэттт	T GAGGGAAATA	GCCTCAATAA	TGGCAAAGTT	TTTTATCGAA	ATTTCAAGTA	5760

			626			
ACATATAGAC	CTACCAATTT	TTTACTTGTT	CAAAGATTTC	CTCTGCTAGA	CTTCCACTTC	5820
TGGCAATGAC	TAAAATCGAG	CTATCATCAG	TCAAACAGCT	AAAAATCTTG	TCTGCAAAAG	5880
TCTCGATTAA	CTGAGCTTTT	ACAAAAGCCG	TATTTCCTGG	AATAACTTGG	AGATTGATCA	5940
TCTTATCCAT	CAATTCAGCC	GATTCGATAT	TGTCTTCAGC	CAGTTGCAGA	CTTTTTACGA	6000
TTGATTTTGG	CAATTCGTAG	ACATAGGTGT	TGTCTCTCAA	AGGAATTTTG	ACAATACCTA	6060
ACTCTTTGAT	ATCTCGGGAT	ACCGTCGCCT	GAGTGGCAGT	GATACCTGCT	TCTTTCAAAT	6120
GTTCTACAAT	TTCTTCTTGC	GTGCCGATTT	GATAATCTGT	CACCAATCTT	CTAATTTTTT	6180
CAAGTCTCTC	TTTTTTATTC	ATTTTTAAAT	TGACTATGCG	CCCTCTCTAC	TGCTTCTTTA	6240
ATCTCAGCAA	GAATCTGATT	GCTTGCTGAC	TTTTCTTTTT	TCAAATACGC	TAAAAATTCA	6300
ATATTTCCAT	GTCCACCTTG	GATGGGAGAA	AAGTCCAAGC	CAAGGACTGA	AAAACCTACC	6360
TCTACTGCCA	TAGCTGTTAC	AGATTCAAGG	ACATTCTGAT	GAACCTTAGC	ATCTCGAATA	6420
ATTCCATTT	TCCCAATCTG	CTCACGTCCT	GCCTCAAACT	GAGGTTTGAC	AAGTGCTACC	6480
ACCTGACCTT	GATCAGCCAA	GACACGGTGC	AAGGCTGGCA	AAATCAGACT	AAGGGAAATG	6540
AAACTCACAT	CAATACTGGC	AAAGCTCGGC	TCCTGCTCGA	AATCAGTCTT	TTCAGCATAG	6600
CGGAAATTGA	ACTGCTCCAT	GCTGACAACT	CGTGGGTCTT	GGCGTAATTT	CCAAGCCAAC	6660
TGATTGGTAC	CAACATCGAC	TGCAAAGACC	AACTTGGCAC	TATTCTGTAG	CATGACATCG	6720
GTAAAACCTC	CAGTAGAGGC	CCCGATATCA	ATCGTAGTCG	CGCCATCCAC	CGACAAATCA	6780
AAGACCTGCA	AGGCCTTTTC	CAGTTTCAAA	CCACCACGGC	TGACATACTT	GAGTTTCTCC	6840
CCCTTGAGTT	TTAATTCGGT	GTCATCTGGA	ATTTTCTCTC	CTGGCTTGTC	AAACCGTTCT	6900
CCATTAAGGA	CTGCTACGAC	TAGGCCAGCC	ATCACACCTC	GCTTGGCCTG	CTCTCTCGTT	6960
TCAAACAACC	CCTGTTTATA	AGCTAGTACA	TCCACTCTTT	CCTTAGCCAT	TGATTCTCAA	7020
ACTTTCTACT	ACACTTACAA	TCGATTCTGT	TTCAAAGGGA	AGCTGCTGGG	CAATTTCTTC	7080
TAATTTTTCA	TTAGCTTGAT	CCAGGGTTTG	GTTACAAAAG	GCAATGGACT	CTTCCAAGCC	7140
CAACAGGGCA	GGATAGGTTG	ATTTTTCTGC	CTGCAGATCC	TTTTGAGGTG	TCTTGCCGAT	7200
TTCCTCAAAA	CTAGCTGTCA	CATCCAGTAC	ATCATCTCTG	ACTTGAAAAG	CAAGTCCAAT	7260
CAATTCACCC	ACAGTTTTCA	GCTTCACCTG	CATTTCAGGT	GACAATTCAG	CTATAATAGC	7320
TGCCGCTTGG	AAGGGATAGG	CTAGTAACTT	CCCAGTCTTA	TTGGCATGAA	TAGTCTGAAG	7380
TTCTTCCAAA	GACAAGTGCT	GGTGTTCGCC	CTCCATATCC	AAAACTTGCC	CTGCTACCAT	7440
ACCCAGACTA	CCTGAAGCAA	GGGATAAGTT	GGCAATCAAG	TCCACCTTAA	TCTGACTTGG	7500
CAAATCTGCC	TGCGCAATCA	AGGCATATGA	GTCTAAGAAT	AAGGCATCTC	CAGCCAAAAT	7560

GCCATAGC	T TCACCGAATT	TCTTGTGATT	GGTTAACCGC	CCTCTTCGAT	AATCGTCATC	7620
ATCCATAGC	A GGAAGGTCAT	CGTGAATCAA	GCTCCCTGTA	TGAATCATCT	CTAAGGCAGT	7680
AGCTACCTG	C GCGTGAGCAG	GTTTGATGGT	AACCTGCAAG	GCTTCCAGAA	CTTCTAACAA	7740
GAGAAAAGG	C CGAATACGCT	TGCCACCAGC	ATGAATAGAA	TAGAGAACAG	ACTCCCGTAA	7800
ACTAGAGGC	A AACTGCTGGT	CTCCATAAAA	ATCTTCCAAA	GCCGACTCGA	CAAGAGCTAA	7860
PTTTTCTTG	C TTTTTCATTC	AAAATCACTT	TCTGTTCCGT	CTTCTTGCAT	GACCTTGACC	7920
AAGGTCTTT	T CAGCCTTGTC	CAGCGTAGCT	TGGAGCTCTT	TTGACAAGAC	CATGCCCTTT	7980
<b>IGAAAGGCA</b>	G TAATCGCATC	TTCCAGAGCA	ATTTCACCAT	TTTCCAAACT	TTGGACAATG	8040
GTTTCCAGT	T CTGCTAGATT	TTCCTCAAAT	TTCTTTTGTT	TTGACATCTT	TAACCTCTAA	8100
PTCTACTTG	A CCATCTCGCA	TCAAAAGCGT	TACTTGGTCT	TTTTTCTTCA	AACTCTCAAC	8160
CGAATCTAC	A ACGGACTCTT	CTTTTTTGAC	AATAGCATAA	CCACGCGCCA	CGATTCGGCT	8220
AGTATCCAA	C ATGAGCAAAG	CTTCCGAAAG	TCGCTTGGCC	TCAGCAACCT	TGGCGTCATA	8280
<b>AACTAACGC</b>	C ATTTGGCTAC	CTAAGAGCTT	GTCCAACTGT	CCTAAACGGT	CTTGATAGCG	8340
<b>PTGGATTT</b>	G GTAACAGGTG	ATAATTGTAC	TAATTGATGA	GTTCTTGCTT	GAACTAATTG	8400
PTTGTTATC	A GAAATCCGAG	TTCGCAAACT	TTGTTTCAAA	CGCAGTTGCA	GTTGGTCCAA	8460
GCGTTGCAA	A TAACCGTCAT	ACAAGCGCTC	AGGTTGTCTA	AAGATAACAG	ACTGACTGCA	8520
PTTTTTCAA	A GCCTCTTGTT	TCTTAGATAG	AACATTTCGG	ACTGCCGTTA	CCATCCGTTT	8580
<b>TTCCTGATT</b>	T TGCAAATGAG	CTAATACATC	CAACTTGGTC	ACAGGTGTTG	CCAGTTCAGC	8640
CGCCGCTGT	T GGCGTTGCAG	CGCGTCGATC	TGCCACAAAA	TCTGCCAAGG	TCACATCCGT	8700
CTCATGCCC	C ACACTAGAGA	TAACTGGCAA	ACGAGATTCA	AAAATAGCTC	GTACCACAAT	8760
TCTTCGTT.	A AAGGCCCAGA	GATCCTCAAT	AGAACCACCT	CCACGACCAA	TAATGAGCAA	8820
ATCCAAATC	G TCCCGTTGAT	TAGCACGCGC	AATATTTCTA	GCAATTTCCT	CCGCAGCCCC	8880
PTCACCTTG.	A ACCTTGGTCG	GATAAAGAAG	GATGTCAACA	CCTGGGAATC	GCCTGCTGAC	8940
GTCGTGAT.	A ATATCTCGAA	TAACGGCTCC	ACTACGGCTG	GTTACTACAC	CAATTCTCTT	9000
AGAAAATTG	G GGCAGAGCTT	GCTTGAAGCG	TTCTTGAAAC	AGGCCTTCTT	CTGTCAATTT	9060
TTCTTAAG	T TGTTCAAACT	GAATCGCAAG	CGCCCCAACC	CCATCAGGCT	CAGCTTTTTC	9120
<b>AATGATGAT</b>	G GAGTAGCTAC	CACTTGGTTC	ATAGACCTGT	ACACGCCCAA	TCACATTGAT	9180
CTTCATTCC	T TCTTCCAGGT	САААСССТАА	TTTCTGATAA	ATCCCAGACC	AGATGGTCGC	9240
TGAATAAC	T GCATGGTCAT	CCTTTAGGGA	GAAATATTGG	TGAGTAGGTC	GTTTACGAAA	9300

			628			
GTTGGAAACT	TGACCAGTTA	AATAGACCCG	TTCCAAGTAT	GGGTCTTTAT	CGAATTTCAT	9360
TTTCAGATAC	TTGGTCAAAG	TTGTTACCGA	TAAATACTTT	TCCATCTCCA	CCTACTATTC	9420
ATTTACTTGC	TCTTTCATGG	GTATTATTAT	ACCAAAAATA	TGCCTAAAAA	TCTCCATTTA	9480
TGTACCATTA	TGAGGGAAAA	ATAGAAAAAG	GAGGCAAGGC	CTCCACATGT	GATTATTTGC	9540
TGTTTCGAGC	TTCTTCCAAA	ATCTTTGCAA	TCTTGGTCGT	CAACAGGTCG	ATAGCCACGG	9600
TATTGCTAAC	CCCTTCAGGA	ATGACGATAT	CAGCATAACG	CTTAGTTGAC	TCGATAAACT	9660
GGTGGTACAT	TGGTTTGACC	ACACCTAAGT	ACTGGTTAAT	AACGCTATCA	AGGCTACGGC	9720
CACGCTCCTC	CATATCACGC	TTGATACGAC	GAATAATGCG	CACATCGTCA	TCCGTATCCA	9780
CAAAAATCTT	GATATCCATC	AAATCGCGCA	GACGCTTGTC	CTCCAAGACC	AAAATACCCT	9840
CAACGATAAA	GACATCTTGA	GGTTCCTGAC	GATAGGTCTT	GCTACTCCGT	GTATGCTCTG	9900
TATAGTCGTA	GGTCGGGATG	TCCACCGGAC	GCCCTGCCAA	CAATTCCTTA	ATCTGCTCGA	9960
TCATCAAGTC	TGTATCAAAG	GCAAAAGGAT	GGTCATAGTT	GGTTTTGACG	G	10011
(2) INFORM	ATION FOR SE	O ID NO: 77	7 :	·		

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 5365 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 77:

CGTGTGGTCT	TAAAAATAGA	AGACAAAGAA	CAAACTGTTG	GAGGCTTTGT	CCTTGCAGGC	60
TCAGCCCAAG	AAAAAACCAA	AACAGCTCAA	GTTGTGGCTA	CTGGACAAGG	TGTTCGTACC	. 120
TTGAACGGTG	ACTTGGTTGC	TCCAAGTGTT	AAAACTGGAG	ATCGTGTCTT	AGTTGAAGCC	180
CACGCAGGTC	TTGATGTCAA	AGATGGCGAT	GAAAAGTACA	TCATCGTAGG	CGACTAACAT	240
TTTGGCAATC	ATTGAGGAAT	AGAAGGAGAA	AGTAAGTATG	TCAAAAGAAA	TTAAATTTTC	300
ATCAGATGCC	CGTTCAGCCA	TGGTTCGTGG	TGTCGATATC	CTTGCAGACA	CTGTTAAAGT	. 360
AACCTTGGGA	CCAAAAGGTC	GCAATGTCGT	TCTTGAAAAG	TCATTCGGTT	CACCCTTGAT	420
TACCAATGAC	GGTGTGACCA	TTGCCAAAGA	AATCGAATTG	GAAGACCATT	TTGAAAATAT	480
GGGTGCTAAG	TTAGTATCAG	AAGTAGCTTC	TAAAACCAAT	GATATCGCAG	GTGACGGAAC	540
TACGACTGCA	ACAGTCTTGA	CCCAAGCTAT	CGTCCGTGAA	GGAATCAAAA	ACGTCACAGC	600
AGGTGCAAAT	CCAATCGGTA	TTCGTCGTGG	GATTGAAACA	GCAGTTGCCG	CAGCAGTTGA	660
AGCTTTGAAA	AACAACGCCA	TCCCTGTTGC	CAATAAAGAA	GCTATCGCTC	AAGTTGCAGC	720

CGTATCTTCT	CGTTCTGAAA	AAGTTGGTGA	GTACATCTCT	GAAGCAATGG	AAAAAGTTGG	780
CAAAGACGGT	GTCATCACCA	TCGAAGAGTC	ACGTGGTATG	GAAACAGAGC	TTGAAGTCGT	840
AGAAGGAATG	CAGTTTGACC	GTGGTTACCT	TTCACAGTAC	ATGGTGACAG	ATAGCGAAAA	900
AATGGTGGCT	GACCTTGAAA	ATCCGTACAT	TTTGATTACA	GACAAGAAAA	TTTCCAATAT	960
CCAAGAAATC	TTGCCACTTT	TGGAAAGCAT	TCTCCAAAGC	AATCGTCCAC	TCTTGATTAT	1020
TGCGGATGAT	GTGGATGGCG	AGGCTCTTCC	AACTCTTGTT	TTGAACAAGA	TTCGTGGAAC	1080
CTTCAACGTA	GTAGCAGTCA	AGGCACCTGG	TTTTGGTGAC	CGTCGCAAAG	CCATGCTTGA	1140
AGATATCGCC	ATCTTAACAG	GCGGAACAGT	TATCACAGAA	GACCTTGGTC	TTGAGTTGAA	1200
AGATGCGACA	ATTGAAGCTC	TTGGTCAAGC	AGCGAGAGTG	ACCGTGGACA	AAGATAGCAC	1260
GGTTATTGTA	GAAGGTGCAG	GAAATCCTGA	AGCGATTTCT	CACCGTGTTG	CGGTTATCAA	1320
GTCTCAAATC	GAAACTACAA	CTTCTGAATT	TGACCGTGAA	AAATTGCAAG	AACGCTTGGC	1380
CAAATTGTCA	GGTGGTGTAG	CGGTTATTAA	GGTTGGAGCC	GCAACTGAAA	CTGAGTTGAA	1440
AGAAATGAAA	CTCCGCATTG	AAGATGCCCT	CAACGCTACT	CGTGCAGCTG	TTGAAGAAGG	1500
TATTGTTGCA	GGTGGTGGAA	CAGCTCTTGC	CAATGTGATT	CCAGCTGTTG	CTACCTTGGA	1560
ATTGACAGGA	GATGAAGCAA	CAGGACGTAA	TATTGTTCTC	CGTGCTTTGG	AAGAACCCGT	1620
TCGTCAAATT	GCTCACAATG	CAGGATTTGA	AGGATCTATC	GTTATCGATC	GTTTGAAAAA	1680
TGCTGAGCTT	GGTATAGGAT	TTAACGCAGC	AACTGGCGAG	TGGGTTAACA	TGATTGATCA	1740
AGGTATCATT	GATCCAGTTA	AAGTGAGTCG	TTCAGCCCTA	CAAAATGCAG	CATCTGTAGC	1800
CAGCTTGATT	TTGACAACAG	AAGCAGTCGT	AGCCAATAAA	CCAGAACCAG	TAGCCCCAGC	1860
TCCAGCAATG	GATCCAAGCA	TGATGGGCGG	GATGATGTAA	GCTTTCTATA	GAAAACAACT	1920
TATAAAAAAC	ACAAAAGGAG	GGAATGACTA	ACCCTTCTTT	TTATAGGCTC	TTTGTCAACT	1980
GTAGTGGGTT	GAAGTCAGCT	AAGCTCGAGA	AAGGACAAAT	TTCGTCCTTT	CTTTTTTGAT	2040
GTTCAAAGCG	ATAAAAATCC	GTTTTTTGAA	GTTTTCAAAG	TTTCGAAAAC	CAAAGGCATT	2100
GCGCTTGATA	AGTTTGATGA	GATTATTGGT	CGCTTCCGGT	TTGGCGTTAG	AATAGTGTAG	2160
TTGAAGGCCG	TTGATAATCT	TTTCTTTATC	TTTGAGGAAG	GTTTTAAAGA	CAGTCTGAAA	2220
AATAGGATGA	ACTTGCTTAA	GATTGTCCTC	AATAAGTCCG	AAAAATTTCT	CCGGTTCCTT	2280
ATTCTGAAAG	TGAAACAGCA	AGAGTTGATA	GAGCTGATAG	TGATGTTTCA	AGTCTTGTGA	2340
ATAGCTCAAA	AGCTTGTCTA	AAATCTCTTT	ATTGGTTAAA	TGCATACGAA	AAGTAGGACG	2400
ATAAAATCGC	TTATCACTCA	GTTTACGGCT	ATCCTGTTGT	ATGAGCTTCC	AGTAGCGCTT	2460

			030			
GATAGCCTTG	TATTCATGGG	ATTTTCGATC	CAATTGGTTC	ATAATTTGAA	CACGCACACG	252
ACTCATAGCA	CGGCTAAGAT	GTTGTACAAT	GTGAAAGCGA	TCCAACACGA	TTTTAGCATT	258
CGGGAGTGAA	ACAGTCTGGG	AGACTGTTTC	AGCCTGAGCC	TAGAAATTTG	AAAGCGAAGC	264
TGTTTAGCCA	AGTCATAGTA	AGGACTAAAC	ATATCCATCG	TAATGATTT	CACTTGACAA	270
CGAACGGCTC	TATCGTAGCG	AAGAAAGTGA	TTTCGGATGA	CAGCTTGTGT	TCTGCCTTCA	276
agaacagtga	TAATATTAAG	ATTATCAAAA	TCTTGCGCAA	TGAAACTCAT	CTTTCCCTTA	282
GTGAAGGCAT	ACTCATCCCA	AGACATAATC	TTTGGAAGCC	GAGAAAAATC	ATGCTCAAAG	288
TGAAAGTCAT	TGAGCTTGCG	AATGACAGTT	GAAGTTGAAA	TGGCCAGCTG	ATGGGCAATA	294
TCAGTCATAG	AAATTTTTTC	AATTAACTTT	TGAGCAATCT	TTTGGTTGAT	GATACGAGGG	3000
ATTTGGTGAT	TTTTCTTTAC	CAGGGGAGTC	TCAGCAACCA	TCATTTTTGA	ACAGTGATAG	3060
CACTTGAAAC	GACGCTTTCT	AAGGAGAATT	CTAGAAGGCA	TACCAGTCGT	TTCAAGATAA	3120
GGAATTTTAG	AAGGTTTTTG	AAAGTCATAT	TTCTTCAATT	GGTTTCCGCA	CTCAGGGCAA	3180
GATGGGGCGT	CGTAGTCCAG	TTTGGCGATG	ATTTCCTTGT	GTGTATCCTT	ATTGATGATG	3240
TCTAAAATCT	GGATATTAGG	GTCTTTAATA	TCGAGCAGTT	TTGTGATAAA	ATGTAATTGT	3300
<b>PCCATATGAA</b>	TCTTTCTAAT	GAGTTGTTTT	GTCGCTTTTC	ATTATAGGTC	ATATGGGACT	3360
PTTTTTCTAC	AACAAAATAG	GCTCCATAAT	ATCTATAAGG	GATTTACCCA	СТАСАААТАТ	3420
PATAGAGCCG	AAAATTCACA	TCTAATATAT	GCAGACTACT	TTGAAATGAA	ATTAAAAAA	3480
PTATTAAAGG	ATGACACAAA	AGTTTTTGAA	AAATCTACAT	TCAAATTTGT	AGAAGGATAT	3540
AAAATATACC	TGACAGAATC	TAAAGAATCT	GGAATTAAAC	AAATGGACAA	TGTCATAAAA	3600
PATTTTGÅGT	TTATTGAATC	TAAAAGTATT	GCTTTATATT	TTCAAAAACG	ATTAAATGAG	3660
TGATAGATT	AAATAGCATT	TTCTCTGTTG	AGATATTGTT	TTTAAAATAT	TGTACTAAAT	3720
GATTGATGCT	ATGTGGAAAT	ACAAAAAAAT	GTTTTTGATA	CGAAGTTGAC	CTGTATTTTT	3780
ГАТАСТААТС	ATTTTCGTAT	TTTTTGTATT	AAACGATATA	AGTTTGTTGT	AAACTTACAA	3840
GGAATAAAGA	CATTAAAAAA	TAACAGTATA	TCTATTTGTT	TTATATATTT	TACGAATTCT	3900
GCATAAATCT	CTTTCTAGTA	ATGTGTTGTA	ACTCTGCTAT	AATAGATTTA	TTCCTTTTTG	3960
<b>FGTTTACACA</b>	ATTTATTTA	TAGTACCAAA	AAAGGTCAGG	ATTTTGTTCC	TGACCTTTGA	4020
CAACTTTACC	GATTCTTTAG	TTCTACATAG	CGCTTGTACC	AAATGTTTAC	ATAGGCTTCT	4080
GAGAAAGGAC	CACGTCCATT	GTTAATCCAA	TCAACAAGAA	TTTTGACATG	TTCTTTTAAA	4140
ATATAGTCCA	AGTCATCAGA	ATAATTCATT	TTGCGTTTGT	GACGCTCGTA	CTCTTCAACG	4200
CCAAGAGAC	GTTTTTCCCC	ATCTGTAAAA	ATTTTAACAT	CCAAATCGTA	ATCAATATAC	4260

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TTCAGTGCTT	CTTCATCCAG	ATAGTAGGGG	CTAGCCATAT	TGCAATAGTA	AGAAGTTCCA	4320
TTATCACGAA	TCATGGCAAT	GATATTAAAC	CAATATTTCT	TGTGAAAGTA	AACAATAGCC	4380
GGTTCTCGAG	TGACCCAACG	ACGACCATCA	CTTTCGGTAA	CAAGTGTATG	ATCGTTGACA	4440
CCAATAATGG	CGTTTTCTGT	TGTTTTTAGT	ACCATGGTGT	CCCGCCAAGT	TCGGTGGAGA	4500
CTCCCATCAT	GCTTATAACT	TTGAATTGTA	ATAAAGTCGC	CTTCTTTTGG	AAGCTTCATA	4560
ACTAACCAAC	TTTCTACAAT	TTATAAGTTT	ATCATTTACT	ATTGTACCAT	AAAATTACCC	4620
AAAATCTGTG	AATTTCACTT	GGAAATATTA	AAGATATTCT	CTAAGAGCGC	TTGCTATATC	4680
CGAAAAATCG	TAGCCCTTTC	GTGCTAAAAC	TTGAGTTAAA	CGCTGCTTCA	GTTCGTATCC	4740
TTCATACTTT	CGGGCATACT	TAGTATATTG	CTTATCAAGT	TCCTTGAAGA	TGAGTTCCTG	4800
AGTCGTTTCT	TCATCAACTT	GACTATCCAA	TTCGTCAAAG	GCAATTTTAG	САТСААААТА	4860
AGAGAAGCCC	TTGTTAGTCA	AGTTCTGGAT	AATCTTATCT	TGCAGGGCAC	GAGCTGGAAG	4920
TTTTCCCTCA	TATTTTTCA	ATAGTTTATT	GGCTACACGT	TGAGCAACTT	CCGAAAAATC	4980
AAAATCATTC	AAGATTTCTT	CTATAGTAGA	TTTTGAAATT	CCTTTTTGTG	CTAATTTCTG	5040
AGTCAGTACA	TAAGGTCCCT	TGTCTCCTGA	AAGTTGATTG	GCATTGATGA	TAGCATAAGC	5100
GTACTGGCTA	TCATTAATCC	ACTTCTCTTC	TTTAAGATTA	GCAATGACTT	GAGAAACGAT	5160
GTTTTCATTA	ATATCATATT	TTTTCAGATA	TTCTCTGACC	TCTTTTTCAG	TACGTGCTTT	5220
AAAGGATAAG	TGGTAGAGGG	CCAGATTCTT	ACCATAAGAA	AATTGAGCAA	AGTCTTGAAT	5280
CTCTTTCAAT	TCCTCTTCGC	TTATCACCTT	ATCTCTCGAT	AACATAAAAC	GAACAATTGT	5340
GTCTTCGGTG	ATATAGCATT	TGTCG				5365

## (2) INFORMATION FOR SEQ ID NO: 78:

- (i) SEQUENCE CHARACTERISTICS:
  (A) LENGTH: 3636 base pairs
  (B) TYPE: nucleic acid
  (C) STRANDEDNESS: double
  (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 78:

7	TTCCAGAAA	GAAGTTGAGT	AAAGTCTTTA	TCAAAGAGAA	TGACTTCCGT	ATTGGAACTG	60
2	CATTAGGTT	TTATTTCTAC	TTTACTAGCG	TCCGCCCTAG	CATTTTCTAA	ATCTTTAATC	120
7	CTTCTGTTG	CCCTATTTAT	AGCCAGCTGA	ATAACTGCTT	GAGGATTTTC	ACTCAGTCCA	180
7	GAAGCTTAT	CGTCCACCGA	AGTATAAAGA	CTCGAATGCA	<b>ጥ</b> ርልርጥጥርጥልል	AATAATCAGA	240

			632			
GTCATTGTAG	AAAAAATCAG	GGTGAAGACA	CCGAAGTTGC	GGATAAAATA	ACTAAAGTCA	300
TCCGCATACC	ATGTTTTTT	AAGTTTACTG	AACATCTTTT	AAAAGATACC	CAACACTACG	360
CAAAGTTTGC	AAATTCTCTG	CAAAAGTGGT	TCCCTTTAAT	TTCTTACGGA	CTTTTGAAAC	420
ATAGACTTCG	ACAACCGAAA	TCGTTGTATC	ACTATCAAAT	CCCCATAGAC	GGTCAAAAAT	480
CTGCGTCTTA	GGCAAAATCA	CATTTTGATT	TTGAAGGAAA	TAAACTAGTA	AATCGAACTC	540
TTTCCCCAGC	AATTCGACAG	GAGTATCTTC	AACTTTAACG	GTATTGGTTG	ATAAATTAAC	600
CACGATATTC	CCATAAGTCA	AGGTGTTTTC	ATTAAACTTC	CCTGAACGTT	TGAGAAGGGC	660
CTGAATCCGC	ATTTTAAGTT	CTTCTAGGTA	GAAAGGTTTG	GTCAGATAAT	CATCCGCTCC	720
CAGTTCAAAT	CCATGTCCCT	TGTCATCCAA	ACTTTCCTTG	GCAGTCATAA	TCAGAACTGG	780
TGTCGTAATT	CCCTTTTCAC	GCAATTCTTT	TAAGACTTGG	AAACCATTTT	TTTCTGGCAA	840
CATCAAATCC	AGCAAAATCA	AGTCATAGAC	ACCACTCTCA	GCTTCGTAGA	GACCTTCTTC	900
TCCATCAAAT	ACCTGCATAA	CATCCGCAAA	ATCGTCTAAA	AAGTCAAATA	CTGAATTTGA	960
CAGACCTAGG	TCATCCTCAA	CCAATAAGAT	TTTTATCATG	AGAAACTCCT	CCTTATTAAA	1020
ACTATTATAC	CAAATTTGCC	TTAAAAAAAA	CTCAACTCTC	TGCATTTTAC	ATGAGATAGC	1080
TGAGTTTTCT	TTTTATTTTA	GGCTTATTTA	TGCATTTCCG	TATTGAAGAA	CAACTGCTTC	1140
GACTGCAGCT	TTTTCACGGC	TAATCAAGTC	AACACGCGCT	GCAATTTCCT	TGATTCCCAT	1200
ACCGATGTTA	CGGCTAAGAG	CAAGGTCAGA	AAGTTGCGGT	TCAAAGAACT	CCTTGTATTC	1260
CGCCAAGCGT	TGCTGAGTCT	TAAATACATG	AGCAGGAAGG	ATAACAAAGC	TATCAAAGCT	1320
CATATCTCCT	CCAAGGGCTG	CCTTAATCCA	AGCCCAGTTT	TCACGCGCCC	AAGACCAAGC	1380
TGTTTTCTGA	GTTGCTTGAT	GAGCTAGGAA	TTGGTAATAC	CAAGCAGACA	AGTCCTGTGG	1440
TTTGACCACA	AATTTGTCCT	TCCAAGAAGT	AATCAGGTTT	TGGATATTAT	CCGCATCTGT	1500
ACTGTATGCA	AGAGCTGCTG	CCAACTGGCG	TTTAAAGACA	GCATCTGTTG	CGTGAGTATA	1560
AGTATCAAGA	TAAAGTGCTA	ACAAGTCTTT	AGTCTCATGA	TGTTTCATCT	CATTAATCAG	1620
AACTTGTGAG	CGAATAGCTG	CTGGGAGTCC	TGCAAGATTC	TCCTTGTGTG	TTGCGAAGAT	1680
TTGGCTAGCG	ACTTGACTAG	CTTCTGCATC	ATTTGAGCGA	ATCATCATCG	AAACAGCCAG	1740
CTGACGAACC	AATTCATCCT	CATCTGATTC	TCCGTCTTTA	GCTTCAAAAC	CAAGACGGTC	1800
Atagttatga	CGAGCCAATT	TAGCAACCAG	TCCTTTGAAG	GCTGTTTCAG	CATCCGTTCC	1860
TTCATCAATA	AAGCGCTCAA	GGGCTGAAAT	CACTTGAGAA	ACAGCTGAAA	CCACCAGATA	1920
AGACTCTTCC	TTAGCAAGTT	TATCAAGAAC	TGGAAGCAAG	TCTGCATAAG	AAATGTGCCC	1980
TGCCTCAGCC	AACAAACGAC	GTTCTTGAAC	AATTTGCAGT	TTGCTTGTGT	TATCAAGTGT	2040

CTCTAGCTCA	GCAAGAACAG	CTGCTAACAA	GTCTCCTTGA	TAGTCGGTAA	TATAGTGGGC	2100
AGTATTTTCA	GTGTTGAGAC	GAAGAGCTCC	TTCATTTTCA	GCAAGAAGAG	CTGCGTAGCC	2160
AGGGATTTCG	ATACTTTCAG	TTTCGAGTGT	ATCAGGCAAG	CCTTTCCAGT	TGCTATTGAG	2220
GGGCACCACC	CAGAGACGGT	TCTTGTCTTC	GTTCTCACCG	ATGAAGAATT	GTTTTTGTGA	2280
AATCTTCAAG	ACATCATTTT	CAACTTTAAC	AGTAAGAACT	GGGTAACCAG	GCTGTTCCAA	2340
CCAAGAATCC	ATGAAGGCTG	CGACATCACG	TCCTGACGCT	TGACCAAGGG	CATCCCAAAG	2400
GTCACTACCA	ATGGTGTTGC	TGTATTGGTG	TTTTTCAAAG	TAGGCGTGCA	AACCTTTAGC	2460
AAAATCAGCA	TCTCCTAGCC	AACGGCGAAG	CATGTGCATG	AGACGGCTTC	CTTTGGCATA	2520
GACGATAGCG	CCGTCAAAGA	GTGTATTGAT	TTCATCTGGA	TGTTTAACTT	CGACGTGGAC	2580
AGACTGAACG	CCATCAGTAG	CGTCACGTTC	AAGAGCAAGA	GGTACTCCAC	CTGTTTGGAA	2640
ATCTTCAAAG	ATATTCCAGC	TTGGTTCGAT	GGTATCCACA	CAGACGTATT	CCATCATATT	2700
AGCGAAACTT	TCATTGAGCC	AAAGGTCATC	CCACCATTTC	ATAGTCACGA	GGTTCCCAAA	2760
CCATTGGTGA	GCCAATTCAT	GGGCCACAAC	AAGGCCAACT	TGTTGACGGC	TAGCAAATGT	2820
AGAGTTCTCA	TCGACAACCA	AGTAAACTTC	ACGGTAGGTC	ACAAGACCCC	AGTTTTCCAT	2880
AGCACCAGCT	GAGAAGTCAG	GAAGGGCGAT	GTGGAGAGAT	TGAGGAATTG	GGTACTTAAC	2940
TCCATAGTAA	TCTTCGTAAA	ACTCGATAGA	GCGAACAGCG	ATATCCAGTG	AGAAATCAAG	3000
ATTTGAAAGT	GGATGTGCTT	TGGTTGAGTA	GACACCTACC	AGGGTACCAT	TTTTAGTTTT	3060
AGCGGTCACC	CCTTGCAAAT	CACCAGCAAC	AAAGGCCAAC	AAGTAAGAAG	ACATGCGAGG	3120
TGTTGTCTCA	AACTTCCAGA	TACCTGTTTC	CTTACGGTTT	TCAACATCGA	TTTCTGGCAT	3180
GTTTGACAAG	GCCAATTCAC	CTTCTGCTTG	GTCAAAGCGA	AGAGAGAGGT	CAAAAGTTGC	3240
TTTGGCTTCA	GGCTCATCCA	CACATGGGAA	AGCTTCGCGC	GCAAAATGGC	TCTCGAACTG	3300
AGTAGACAAG	ACCTCCTTCT	TGACTCCATC	AACTGTATAA	TAAGAAGGGT	AAATCCCTGT	3360
CATGTTGTCT	GTAATTTTAC	CAGAAAAGGC	AAGAACCAAT	TCAACTTGAC	CAGCCTCAGC	3420
CAATTCGATA	TGAAGGGCTT	CATTGTCATG	GTCAACTGTA	AATGGACGAG	CTTGACCTGC	3480
AACTTCTACA	GAGGTGATTT	CCAAATCTTT	TTGGTGGAGG	GAGATGCGGT	CACTCTGTGC	3540
TTGACCAGTG	ATGGTCACTT	TCCCAGAAAA	AGTCTTGGTC	TCACGACTCA	AATCTAAAAA	3600
ТАААТСАТАА	TGTTCAGGAA	CAAATTGCTT	AATGGG			3636

<sup>(2)</sup> INFORMATION FOR SEQ ID NO: 79:

<sup>(</sup>i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 5066 base pairs

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(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 79:

60	TAGAAACCGA	CTCCTACAAA	CATAAGCCAC	TTAGAGGTAC	ATAATCGATT	ATAGCGTGTA
120	GAAACATTTC	TGTCTCAAGC	CCCTAGTTCC	CCTTAGACTT	TGCCTTCCAC	TATAAATCAA
180	AAAGAAACCA	AGCAGAATAA	ACCAATAGCT	ACCAATTCAT	GAATAAGTTA	TTTGAAACAG
240	ACAGAACTGA	GTATTGAAAA	TCTCAAGACG	CTGTCACATT	AACTTGATAT	AATGCCCCAT
300	AGTAAAAATA	ATGTAAAACC	ATAGAAGGGG	TAAAAAGAGA	CAAGCAAGGC	AACAACTGTC
360	ТАТСААААТА	TCAATCCAGT	GTTGGCCTTT	TACTATTTCT	GGAAAAAACT	<b>АТАААААТ</b> Т
420	TCCCCCCTTC	ATCACCGACA	CAAATGTTCC	AGAATTTAAA	GCTAAAAGTA	AAAGTACGGT
480	TCATTCCAGA	TCCGGAACTG	АТСАААААА	ATTTTATTAT	GTTTTCTATT	TTTTGATAGC
540	TCAAAAACAA	CGGTGTTCCC	TGAGATGAAT	TTTCTTGCGA	TTATTTGCGT	TTCTACTTTT
600	AGTTCTTCTT	AAAGTGCATG	GCAGGTAAGA	TCCAAGAAAC	GATTTGATTT	AGGCCTTGCG
660	TAGAAAATCT	TTGGGTCGCA	TGGTTGCCAC	GTTGGTGGTT	GATGACAAAG	CATTGACAAA
720	ATGATGACAT	AATGGCATCC	GGTTGATGGC	GTCGGTGTTG	TCCTTTGTCT	TGAGACGTTT
780	TTAATCATCT	GCTGATTTGC	TTTGACTTTC	ATACGTGTAT	AGCTGATGGA	CGTTCAAGAC
840	GGTGCGTAAG	AAAGATAATC	AAGCTGATAC	TGCTTGGTTA	GTGGAGACGT	CAGGAAGTTT
900	TGGTTATCTT	TTTCATAGTG	CTTCCCAGTT	CGGATATCTT	GAACTGCTCA	GCAGGTATTG
960	TCATGGGCAA	TTTACCAGCT	TAATCATCCC	TTGACCACGA	ATCCCACTTG	TTTCAAGCGT
1020	ACCATCAAGA	CGCATTGATG	TGCCTTCTTC	TACTCACGAA	ACGCTTGTCG	ATCCTGCGAT
1080	TCAGTATTTT	AGAGTATTTC	CACGCATAAC	GCACGCATGG	ACGGTCAATA	CCACATCTGA
1140	TCTTGACCAT	CATGGTAAAC	CCGTATCAAT	CGCATACCAG	ACCAGACTTA	CATAAACCTT
1200	GGACTAGCAA	TCCAGCAACA	CACGAGTTGT	TCAATGGCAT	AAAGTGGGTA	CTGTATCTGT
1260	TTAGGACGAC	TTTTCCAACG	TCAAGCTTGA	ATAGCATTGA	TTCTCCCAAG	TAACACGGTC
1320	GGAAGATTTT	ATATTCATTT	TTTCTTCCTC	ACATCTGGAT	AAACTTAATG	CAATCAAGCT
1380	ATAGGCAATG	GACAGATGAG	CGATTCCATG	TCCCCTGTAC	ATCTAGCACA	CTACGATCGC
1440	GGGTTGTCCA	TCTCATCTCA	ATATATCATT	TAGAAATCAT	ACCGAGAGCA	GTTCACCCAA
1500	GCTACGTATT	AAGCTTACGA	GGGTCTTATA	ACTGGTTTGT	TGCGAGGATA	CCTTGTTGAC
1560	TCTGCTTCTT	AACGATAACA	ACACGACAAA	TCCTTACCAG	AGTAATTCCT	CGTCTGCATC

CCATGGCAAT	TTCTGCCTGG	TGCTTGATTT	GTTCCATGAA	AGGAGCATCG	ACATCATCAA .	1620
PTCCTCCTGT	ATCAATCATG	CTAAAAGAAC	GATTGAGCCA	CTCACCCGTT	GCATAAATAC	1680
GTCACGTGT	CACTCCTTCG	ACATCTTCTA	CAATGGAGAT	TCGCTCACCA	GCGATCCGAT	1740
PAAATAGGGT	TGATTTCCCA	ACATTGGGAC	GTCCTACAAT	GGCAATAGTT	GGTAGGGCCA	1800
PAATTTCTCA	CTTTCTACAA	TAATTTCTTC	TGTTCAAGAT	TTTTTCTAGT	TGAGCTTGGT	1860
CAGCTTGAC	CAAACTGTTC	TGCTAGGCGC	TGACTCCAGC	TTGTGGTCGC	ACGCGCCCCA	1920
GCATAGTCAG	CCTGAACACG	GTCATAAGCT	TGGATTGCCT	CAGTTGACTG	TTCTTGGTAT	1980
PCTTCCTCAA	AGACAACATT	CTCTAGTGGC	AGTCTCGGTT	TCATATCATG	ATGTTGATTT	2040
GCACACCCA	GTGCCATCCC	AAAGACAGAA	TAGGTGTAGT	CAGGTAGGTT	AAAGAGCTCT	2100
CCACTTCTT	CAGACTTGTA	TCGAACCAAA	CCGATAATCA	CACCACCATA	GCCCAAGCTT	2160
CAGCTGCCA	ACAAGGCGTT	TTGTCCAGCA	AGAGCTGCAT	CGACCGAACT	AATCAAGAGA	2220
CCTTCCACAC	CTTGGGGTTG	GAAGGTGTCG	GTATGAAGTC	GGCTCCCTT	TTCTGCTCGG	2280
TCAAATCTC	CGACAAAGAG	AAGGAAAACA	GCAGACTGGC	GAATGGCTTC	TTGAGGTACC	2340
\ATTCATACA	AGGCATCTTT	CTTCTCTTGA	CTTCGTACCA	CAATCACAGA	GTAGGATTGG	2400
AATTCTTCC	AAGATGATGC	CATCTGGGCT	GCTGTCAAAA	TCTCATTTAA	GTCTACTTGG	2460
GAATTTCTT	GCTCTTTAAA	CCTGCGCACT	GAAGTATGAG	ССТТСАТСАА	TTTAATGGTT	2520
CTGTCATCG	ACGGTTTACT	CCTTCTAAAC	GAGTCTCCTC	AGCCAAATAA	CGGATGCGTT	2580
CATGACCCG	TCTGGCTTCC	CAGGTTTCGT	CATTTCCATG	TTTCACTTTC	GCAAAATGCT	2640
CTCCAAATC	TTCAAAGTTG	AAGTTGGATG	TGAAAAAGGT	CGGTAAATTT	TCCTGCATCC	2700
SATATTGGAG	AATGACCTGC	AGGATTTCGT	CACGCACCCA	AACGGTTGAT	TGCTCGGCGC	2760
CAATATCATC	TAAAATCAGG	ACCTCAGACA	GCTTAATCTC	ATCCACCAAG	GTCTTAACAT	2820
GCCATCACT	GATAGCATTT	TTGACATCAA	TGACAAAGCT	AGGATAGTGG	AGGAGAGTTG	2880
TGAAACACC	ACGTTTTTCT	GATAAATCAT	GAGCTAAGGC	CGCCACCATG	AAACTTTTAC	2940
CACACCAAA	GTCTCCATAT	AAGTAAAGAC	CTTTTCGAAT	AGCTGGATAT	TGCTCCACGA	3000
GGCTAGTAG	CTTTTCAAAA	ACTGGTAAGC	GCCCCAAATC	ATCCAAGTCA	ACTTGAGCCA	3060
ACTAGCTTT	CTTGAGACTG	GCTGGTAGAT	TGATTAACTT	GAGACGGTTC	TTAATAGCCG	3120
TTCTTTTTC	AGCCGCGATT	AGCTCAGGAG	TTTCTTCATA	TGAAACATCT	GCATAACCAT	3180
ATTCTTAAC	CAAAATCGGC	TTGTAGCCTT	TGGCAATATA	ATCCGTATCC	CCACGGAGAA	3240
.ഗ്രഹ്യാസ്	CTCCCTCATC	<b>ጥ</b> ልርጥር እጥጥ አ	ስ <b>ር</b> ሞጥርር እር አጥ	A CTVC CC A THUT	A A DEPOCEDENCE	3300

			636			
GAGTTAAGGA	TTCTTGCTGG	ATAAAGGCCG	CAACATCAGG	GTCCTTCATG	ATTTTCTGGA	336
CCAAATCTTG	АТААТАААА	CGGCTGGGTT	GACGTTTGAG	TACGTCTCCG	ACACTTTCCA	342
TCTAATCTCC	TCCTTTTTCT	AATCGAGCTA	ATAGTTCTTG	CTTCTTACGT	TCTAGTTCCA	348
GACGAGTTTC	CTCGCTGGTT	TCATTCTTAT	ATTCAGGATT	ACTCCATTTA	GGAACATTGG	354
TTTTTTCTGG	GGCAGTCTGA	TTCTGTTTTT	GTGTTTTTGC	TTTCTGCCCT	CGATCACGAA	360
TTCGTAAAAC	GGCCTCTTCT	GCCGAATGAA	TCTTTTGATA	GGCATAGTCA	TTGGCTACCT	366
TCATGGCATA	TTTCTCATTG	ATATTTGCCG	AATCCACCTT	ATTAAAGGTC	AATAAGAGAA	372
ТААТАТТСАТ	GACTTCGTCC	AGTAAGCCCA	AGCCAGCCAT	CTGTTGCAAG	AGTTCTCTTT	3780
CTGTTTGGGT	AATGGTTCCC	TTGCGTGTTT	GCTTGATTTC	TGCTAAGAAC	TGCAGGGCAG	3840
TTTTACTTTT	AGCTTCTTTG	ATAATGGTCG	CTTCCTTAAG	ACTAAAGTCA	GAGGAAACTG	3900
GTTTTTGAGC	AATTTTTTCA	CGCATGCGTT	TGGTTGAAAT	AACCTGGGAA	ACAGCTGTTG	3960
ACTTGGCCAA	TTGATAGGTT	TCAAACCAAG	TCCATTTCTT	CTCCTCGGCA	ATAGCAAAGA	4020
GGTTTAAGAC	ATCGGACTGC	TCATCCGCAA	AACGAAGTCC	ATCTCGAGCC	ATCAGCTGGC	4086
GAAAATGTTC	CAAGTCAAAA	TCATTGGCCA	CTTTCTTCTT	GAGACCAAGG	TCTTCTTGAC	4140
TGCCTAGTTC	TGCCAATTCT	GGAAAGACTT	GATTGAGTGA	GACAGGTATT	TCTTCACCAT	4200
CAGCACTTTC	AACTTTCAAA	TCCTCCACAG	CTACATCGCC	AATCTTTTTC	TCTAAGAGTC	4260
IGCGATAAAC	AGGATGCCCC	AAGAAGTCTT	GACTAGATAG	AGGAGCATGG	AGGGCTAGCT	4320
GATAAACATC	ACCCTTTTGA	TAGAGGGTCA	AGAGATTAAA	AGCAGATAAG	ATTTTCAATG	4380
ATTTTATCAG	TCTATCCATC	CCAAAGTTGA	GATGGTTGAG	AATGCTTGAA	AAAAGATATT	4440
CCTTTCTACC	ATTATCCCAA	AAACTGATTG	TATAAAGATA	AAGGCTCAGT	GCCTCCTGAC	4500
CGATAATCGG	GAGGTAGCAC	TGTACCAGAG	ATGAGGTATC	TTGCGACACC	CGATTATTCT	4560
<b>PTAGATAAGA</b>	AAAACGGTCA	ATTGGCTTCA	TTTATCTTTC	CTTTTTCTTT	TTAGAGGACT	4620
GGTGATTTG	TTGGAGCAAG	CTCTCTAACT	CACTGACATC	СТТААААСТА	CGATAGACAC	4680
PAGCAAAACG	TACATAGGTA	ATCTCGTCCA	ATTCAGCCAA	CTCCTCCATG	ACGAGTGAAC	4740
CAATGTCCTC	ACTTTGAATT	TCATTTTCAT	TTCGACCACG	GAGTTTCTGT	TCGATACGAT	4800
rgactaccat	GTTGATTTCA	TCACTTGACA	CAGGACGTTT	CTGGGCTGAG	CGGATAATCC	4860
CATTAAAGAT	TTTATCTCTG	GAGAATTGTT	CCCGTGTGCC	ATCTTTTTTA	ACAACCACTA	4920
AGGTTCTTTC	TTCTACTCGT	TCGTAGGTTG	TAAAACGGTG	TTGGCATTCG	TCGCACTCAC	4980
STCTTCTACG	AATGGTGTTC	CCTTCTTCTG	CTTGGCGACT	ATCGATAACA	CTTGACTTGG	5040
PAGCCCCACA	TTTTGGACAG	GGTACC				5066

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# (2) INFORMATION FOR SEQ ID NO: 80:

# (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 9607 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 80:

60	GTACGTGCAC	TGTACTTGAA	ACATCATGCC	GCTATGGAAA	ATTTGAAACA	CACTTGAAGT
120	CGTCGTACAA	TCGTCCAGAA	CAGTTGAAGT	TACCAAGTCC	TGGTTCTAAC	GTCGTGTTGG
180	ACAATGCAAG	TGGTGAACAC	CTCGTCTTCG	GTAACAATCG	TCGTTGGTTG	CACTTGGACT
240	GTTAAGAAAC	TGGTGCAGCA	CTAACAACAC	TTGGATGCTG	AAAAGAAATC	ACCGTCTTGC
300	CGTTGGTAAG	CGCACACTTC	ACCCTGCATT	GCTGAAGCTA	TCACCGTATG	GTGAAGATAC
360	CAGGTTGCGG	GGAATCGAAG	GAGAAAATAG	GAAAGTCCCA	AAAGCGTTAA	ATAGGATGCG
420	ACTAAATCAT	CTTGAGCTCA	AGACTTTTAG	CTTTTTCTCC	TGAGATTCAT	TTGCAACCAA
480	ATTCGACGAA	CTGACGCAGT	AAATAGGAAA	TGCAAGGTAA	ACGGTAAGGA	GATGCTAGGA
540	GCTAACTAAC	GCTCACATCG	TCCCGTTCCA	TCACGCAGCA	TTTATCTTTT	TACAAGGAGT
600	GCTTACCATC	CTATAACTCA	TTAGTATTAG	GCTAAATCGA	GTTCAAATTA	TTTAGCCCGG
660	CTGCCTATCC	CGGGTAGGTC	ACATTGAGAA	TAGCATGAAA	AAACCAACAA	TCGTAAGTTG
720	AGAAACAAAC	AATAAATAGG	AGAAATCAAA	ATAATAGAAT	AAATCGTGTT	GTTTTTATTA
780	GGCTCACGTC	TCGGTATCAT	ACTCGTAATA	ACTTGAAAAA	GCGAATTTTC	CTCATGGCAC
840	AATCCACAAA	ACACTGGTAA	ATTCTTTACT	TACTGAGCGT	AAACAACAAC	GATGCCGGTA
900	GCAAGAACGT	TGGAGCAAGA	ATGGACTGGA	TGCGTCACAA	CTCACGAAGG	ATCGGTGAAA
960	CGTAAACATC	ACAACCACCG	GCTCAATGGA	TGCGACGACA	TCACATCTGC	GGTATCACGA
1020	TCGTGTATTG	AACGTTCTCT	ATCGAAGTAC	GGACTTCACA	CAGGACACGT	ATCGACACAC
1080	TGAAACAGTT	AGCCTCAAAC	TCAGGTGTTG	TGACTCACAA	TTACCGTTCT	GATGGTGCGG
1140	AATGGACAAA	TTGCCAACAA	CGTATCGTAT	CGGAGTTCCA	CAACTGAGTA	TGGCGTCAAG
1200	AGCAAATGCA	ATCGTCTTCA	ACACTTCACG	CTCTGTAAGC	ACTTCCTTTA	ATCGGTGCTG
1260	TGACTTGATC	GTGGTATCAT	GATGACTTCC	CGGTTCTGAA	AATTGCCAAT	CACCCAATCC
1320	AGAAGACATC	ATATCCTTGA	CTTGGTACGG	TACTAACGAC	CTGAAATCTA	aagatgaaag
1380	AGCAGTTGCT	AATTGATTGA	TACCGTGAAA	AGCTCAAGAA	ACCTTGACCA	CCAGCTGAAT

			638			
GAAACTGACG	AAGAATTGAT	GATGAAATAC	CTCGAAGGTG	AAGAAATCAC	TAACGAAGAA	1440
TTGAAAGCTG	GTATCCGTAA	AGCGACTATC	AACGTTGAAT	TCTTCCCAGT	ATTGTGTGGT	1500
TCAGCCTTCA	AAAACAAAGG	TGTTCAATTG	ATGCTTGATG	CGGTTATCGA	CTACCTTCCA	1560
AGCCCACTTG	ACATCCCAGC	AATCAAAGGT	ATTAACCCAG	ATACAGACGC	TGAAGAAATT	1620
CGTCCAGCAT	CTGACGAAGA	GCCATTTGCA	GCTCTTGCCT	TCAAGATCAT	GACTGACCCA	1680
TTCGTAGGTC	GTTTGACATT	CTTCCGTGTT	TACTCAGGTG	TTCTTCAATC	AGGTTCATAC	1740
GTATTGAATA	CTTCTAAAGG	TAAACGTGAA	CGTATCGGAC	GTATCCTTCA	AATGCACGCT	1800
AACAGCCGTC	AAGAAATCGA	CACTGTTTAC	TCAGGTGATA	TCGCTGCTGC	CGTTGGTTTG	1860
AAAGATACTA	CAACTGGTGA	CTCATTGACA	GATGAAAAAG	СТААААТСАТ	CCTTGAGTCA	1920
ATCAACGTTC	CAGAACCAGT	TATCCAATTG	ATGGTTGAGC	СААААТСТАА	AGCTGACCAA	1980
GACAAGATGG	GTATCGCCCT	TCAAAAATTG	GCTGAAGAAG	ATCCAACATT	CCGCGTTGAA	2040
ACAAACGTTG	AAACTGGTGA	AACAGTTATC	TCAGGTATGG	GTGAACTTCA	CCTTGACGTC	2100
CTTGTTGATC	GTATGCGTCG	TGAGTTCAAA	GTTGAAGCGA	ACGTAGGTGC	TCCTCAAGTA	2160
TCTTACCGTG	AAACATTCCG	CGCTTCTACT	CAAGCACGTG	GATTCTTCAA	ACGTCAGTCT	2220
GGTGGTAAAG	GTCAATTCGG	TGATGTATGG	ATTGAATTTA	CTCCAAACGA	AGAAGGTAAA	2280
GGATTCGAAT	TCGAAAACGC	AATCGTCGGT	GGTGTGGTTC	CTCGTGAATT	TATCCCAGCG	2340
GTTGAAAAAG	GTTTGGTAGA	ATCTATGGCT	AACGGTGTTC	TTGCAGGTTA	CCCAATGGTT	2400
GACGTTAAAG	CTAAGCTTTA	TGATGGTTCA	TATCACGATG	TCGACTCATC	TGAAACTGCC	2460
TTCAAGATTG	CGGCTTCACT	TTCCCTTAAA	GAAGCTGCTA	AATCAGCACA	ACCAGCTATC	25,20
CTTGAACCAA	TGATGCTTGT	AACAATCACT	GTTCCAGAAG	AAAACCTTGG	TGATGTTATG	2580
GGTCACGTAA	CTGCTCGTCG	TGGACGTGTA	GATGGTATGG	AAGCACACGG	TAACAGCCAA	2640
ATCGTTCGTG	CTTACGTTCC	ACTTGCTGAA	ATGTTCGGTT	ACGCAACAGT	TCTTCGTTCT	2700
GCATCTCAAG	GACGTGGTAC	ATTCATGATG	GTATTTGACC	ACTACGAAGA	TGTACCTAAG	2760
TCAGTACAAG	AAGAAATTAT	TAAGAAAAAT	AAAGGTGAAG	ACTAATCCGT	CCTCACTCTA	2820
GAAGGAAGTC	ACTTAGTGGC	TTCCTTTTGT	CTTTAGAAAA	TACCTCTAAA	TATGGTAAAA	2880
TAGTAGAAGA	ATAATGTGAG	GAAAATGAAT	GTCAAATAGT	TTTGAAATTT	TGATGAATCA	2940
ATTGGGGATG	CCTGCTGAAA	TGAGACAGGC	TCCTGCTTTA	GCACAGGCCA	ATATTGAGCG	3000
AGTTGTGGTT	CATAAAATTA	GTAAGGTATG	GGAGTTTCAT	TTCGTATTTT	CTAATATTTT	3060
ACCGATTGAA	ATCTTTTTAG	AATTAAAGAA	AGGTTTGAGC	GAAGAATTTT	CTAAGACAGG	3120
CAATAAAGCT	GTTTTTGAAA	TTAAGGCTCG	GTCTCAAGAA	TTTTCAAATC	AGCTCTTGCA	3180

GTCCTACTAT	AGGGAGGCTT	TCTCTGAAGG	TCCATGTGCT	AGTCAAGGTT	TTAAGTCCCT	3240
TTATCAAAAT	TTGCAAGTTC	GTGCTGAGGG	TAATCAGCTA	TTTATTGAAG	GATCTGAAGC	3300
GATTGATAAG	GAACATTTTA	AGAAGAATCA	TCTTCCTAAT	TTAGCCAAAC	AACTTGAAAA	3360
GTTTGGTTTT	CCAACTTTTA	ACTGTCAAGT	CGAGAAGAAT	GATGTCCTGA	CCCAAGAGCA	3420
GGAAGAGGCC	TTTCATGCTG	AAAATGAGCA	GATTGTTCAA	GCTGCCAATG	AGGAAGCGCT	3480
CCGTGCTATG	GAACAACTGG	AGCAGATGGC	ACCTCCTCCA	GCGGAAGAGA	AACCAGCCTT	3540
TGATTTTCAA	GCGAAAAAG	CTGCAGCTAA	ACCCAAGCTG	GATAAGGCGG	AGATTACTCC	3600
TATGATCGAA	GTGACGACAG	AGGAAAATCG	TCTGGTATTT	GAAGGGGTTG	TTTTTGATGT	3660
GGAGCAAAAA	GTGACTAGAA	CAGGTCGTGT	TTTAATCAAC	TTTAAAATGA	CGGACTATAC	3720
TTCAAGTTT	TCTATGCAAA	AGTGGGTTAA	AAACGAGGAA	GAGGCCCAGA	AGTTTGACCT	3780
CATCAAGAAG	AATTCTTGGC	TCCGAGTTCG	AGGGAATGTG	GAGATGAATA	ACTTCACACG	3840
CGATTTGACT	ATGAACGTAC	AGGATCTGCA	GGAAGTTGTT	CACTATGAGC	GGAAGGATTT	3900
GATGCCAGAA	GGTGAGCGTC	GGGTTGAGTT	TCATGCTCAT	ACTAACATGT	CGACTATGGA	3960
TGCTTTGCCA	GAGGTCGAAG	AGATTGTTGC	AACAGCTGCT	AAGTGGGGAC	ACAAGGCGGT	4020
TGCTATCACG	GACCATGGGA	ATGTCCAGTC	CTTTCCACAT	GGCTATAAGG	CGGCTAAGAA	4080
AGCGGGAATC	CAGCTGATCT	ATGGGATGGA	AGCCAATATC	GTGGAGGACC	GTGTCCCTAT	4140
CGTCTATAAC	GAAGTGGAGA	TGGACTTGTC	AGAAGCAACC	TACGTGGTCT	TTGACGTGGA	4200
AACGACGGGA	CTTTCAGCTA	TCTATAATGA	CTTGATTCAG	GTTGCGGCTT	CTAAGATGTA	4260
CAAGGGGAAT	GTTATTGCTG	AATTTGATGA	ATTTATCAAT	CCTGGGCATC	CCTTGTCAGC	4320
CTTTACTACA	GAGTTAACTG	GAATTACAGA	TGATCATGTC	AAAAATGCCA	AACCACTAGA	4380
ACAAGTTTTG	CAAGAATTCC	AAGAATTTTG	CAAGGATACG	GTCCTAGTTG	CCCACAATGC	4440
TACCTTTGAC	GTTGGCTTTA	TGAATGCTAA	TTATGAGCGG	CATGATCTTC	CAAAGATTAG	4500
TCAGCCAGTT	ATTGATACGC	TGGAGTTTGC	TAGAAACCTC	TATCCTGAGT	ATAAACGCCA	4560
TGGTTTGGGG	CCTTTGACCA	AGCGTTTTGG	TGTGGCCTTG	GAACATCACC	ACATGGCCAA	4620
CTACGATGCG	GAAGCGACTG	GTCGTCTGCT	TTTCATCTTT	ATCAAAGAGG	TAGCAGAAAA	4680
ACATGGTGTG	ACCGATTTAG	CTAGACTCAA	CATTGATCTA	ATCAGTCCAG	АТТСТТАСАА	4740
AAAAGCTCGG	ATCAAGCATG	CGACCATCTA	TGTCAAGAAT	CAGGTAGGTC	TAAAAAATAT	4800
CTTTAAGCTG	GTTTCCTTGT	СТААТАССАА	GTATTTTGAA	GGAGTGCCAC	GGATTCCGAG	4860
ልልሮርርጥጥርጥል	салососовло	CACACCCCTT	Chromance	THE RECORDED	CACACCCTCA	4020

			640			
AGTTTTTGAC	GTGGTCGTTT	CTCAAGGTGT	GGATGCGGCG	GTTGAGGTGG	CCAAGTATTA	4980
TGATTTTATC	GAGGTCATGC	CACCGGCTAT	CTATGCACCC	TTGATTGCCA	AAGAGCAGGT	5040
CAAGGATATG	GAGGAACTCC	AGACCATTAT	CAAGAGTTTG	ATAGAGGTTG	GAGACCGCCT	5100
TGGCAAGCCT	GTTCTGGCTA	CGGGAAATGT	TCACTATATC	GAACCGGAAG	AAGAGATTTA	5160
TCGTGAAATT	ATCGTCCGTA	GTTTGGGACA	GGGTGCGATG	ATTAATCGAA	CTATCGGTCA	5220
TGGTGAACAT	GCCCAACCAG	CACCACTTCC	AAAGGCTCAT	TTTCGAACGA	CTAATGAGAT	5280
GTTGGATGAA	TTTGCCTTTT	TGGGAGAGGA	ACTGGCTCGT	AAACTGGTTA	TTGAAAACAC	5340
CAATGCCTTG	GCAGAAATAT	TTGAATCCGT	TGAAGTCGTT	AAGGGTGACT	TGTATACGCC	5400
TTTCATCGAC	AAGGCTGAAG	AAACAGTTGC	TGAGTTGACC	TATAAGAAAG	CTTTTGAGAT	5460
TTATGGAAAT	CCGCTGCCAG	ATATTGTTGA	TTTGCGGATT	GAAAAAGAAT	TAACATCCAT	5520
ACTGGGGAAT	GGATTTGCTG	TGATTTATCT	GGCATCGCAG	ATGCTGGTGC	AACGTTCTAA	5580
TGAACGGGGT	TATTTGGTTG	GTTCTCGTGG	GTCTGTCGGA	TCTAGTTTCG	TTGCGACCAT	5640
GATTGGGATT	ACGGAGGTCA	ATCCTCTCTC	TCCTCACTAT	GTCTGTGGTC	AGTGTCAGTA	5700
CAGTGAGTTT	ATCACAGATG	GTTCGTACGG	TTCAGGATTT	GATATGCCCC	ATAAGGACTG	5760
TCCAAACTGT	GGTCACAAAC	TCAGTAAAAA	CGGACAGGAT	ATTCCGTTTG	AGACCTTCCT	5820
TGGTTTTGAT	GGGGATAAGG	TTCCTGATAT	TGACTTGAAC	TTCTCGGGAG	AAGATCAGCC	5880
TAGCGCCCAC	TTGGATGTGC	GTGATATCTT	TGGTGAAGAA	TATGCCTTCC	GTGCGGGAAC	5940
GGTTGGTACG	GTAGCTGCCA	AGACTGCCTA	TGGATTTGTC	AAAGGTTACG	AGCGAGATTA	6000
TGGCAAGTTT	TATCGTGATG	CAGAAGTAGA	ACGCCTCGCT	CAAGGAGCGG	CGGGTGTCAA	6060
GCGGACAACA	GGCCAACACC	CGGGGGGAAT	CGTTGTTATT	CCGAACTACA	TGGATGTCTA	6120
CGATTTTACG	CCTGTCCAGT	ATCCAGCAGA	TGATGTCACG	GCTGAATGGC	AGACCACTCA	6180
CTTTAACTTC	CACGATATCG	ATGAGAACGT	CCTCAAACTC	GATGTACTGG	GACATGATGA	6240
TCCGACTATG	ATTCGAAAAC	TTCAGGATTT	GTCTGGTATT	GACCCTAATA	AAATTCCTAT	6300
GGATGACGAA	GGCGTGATGG	CACTCTTTTC	TGGGACTGAT	GTGCTAGGGG	TAACACCTGA	6360
ACAAATTGGA	ACGCCTACGG	GTATGTTGGG	GATTCCAGAG	TTTGGAACAA	ATTTCGTACG	6420
TGGAATGGTA	GACGAAACCC	ATCCGACAAC	CTTTGCGGAA	TTGCTTCAGC	TGTCTGGTCT	6480
GTCCCACGGT	ACTGATGTTT	GGTTGGGGAA	TGCTCAGGAT	CTGATTAAGC	AAGGAATAGC	6540
GGACCTATCG	ACTGTTATCG	GTTGTCGGGA	CGACATCATG	GTTTACCTCA	TGCATGCGGG	6600
TCTGGAACCT	AAGATGGCCT	TTACCATTAT	GGAACGGGTA	CGTAAGGGTT	TGTGGCTAAA	6666
GATTTCAGAA	GAGGAGAGAA	ATGGCTATAT	CGAAGCAATG	AAGGCTAATA	AGGTGCCAGA	6720

GTGGTATATC	GAATCCTGTG	GGAAAATTAA	GTACATGTTC	CCTAAGGCCC	ATGCGGCAGC	6780
CTACGTTATG	ATGGCCTTGC	GTGTAGCTTA	CTTCAAGGTT	CACCATCCTA	ТТТАТТАСТА	6840
CTGTGCTTAC	TTCTCCATTC	GTGCTAAGGC	TTTTGATATC	AAGACCATGG	GTGCGGGCTT	6900
GGAGGTCATC	AAGCGCAGAA	TGGAAGAAAT	CTCTGAAAAA	CGGAAGAACA	ATGAAGCCTC	6960
Paatgtggaa	ATCGATCTCT	ATACAACTCT	TGAGATTGTC	AATGAGATGT	GGGAACGAGG	7020
PTTCAAGTTT	GGTAAATTAG	ATCTCTACTG	TAGTCAGGCG	ACAGAGTTCC	TCATCGACGG	7080
GATACCCTT	ATCCCACCAT	TTGTAGCAAT	GGATGGTCTG	GGAGAGAACG	TTGCCAAGCA	7140
ACTGGTGCGG	GCGCGTGAAG	AGGGAGAATT	CCTCTCTAAA	ACAGAACTAC	GCAAGCGTGG	7200
rggactctca	TCAACCTTGG	TTGAAAAGAT	GGATGAGATG	GGTATTCTTG	GAAATATGCC	7260
AGAGGATAAC	CAGTTGAGTT	TGTTTGATGA	GTTGTTTTAA	AAAATTGCTT	AATAATCTAT	7320
<b>FAAAAGAGGC</b>	TAACGTATAT	CCAATAGATT	TACATTAGCT	TTCTTTTTTG	TTAAAATAGT	7380
TATGGAAAG	AGGGTGAGAG	TATGTCAAAG	ATGAGTATAA	GCATCCGTCT	GGATAGTGAG	7440
STTAAGGAGC	AGGCCCAACA	GGTGTTTAGT	AATCTGGGAA	TGGATATGAC	AACAGCTATT	7500
ATATTTTCC	TTCGTCAGGC	AATTCAATAT	CAGGGATTAC	CTTTTGATGT	TAGACTAGAC	7560
GAAAATCGGA	AGTTGCTCCA	AGCGTTAACG	GATTTAGACC	AAAATCGTAA	TATGAGCCAG	7620
CTTTTGAAT	CAGTCTCAGA	TTTGATGGAG	GACTTACGTG	CTTAAGATTC	GTTATCATAA	7680
CAGTTTAAA	AAAGATTTTA	AGTTGGCTAT	GAAGCGTGGT	TTGAAGGCAG	AATTATTAGA	7740
GAAGTTTTG	AATTTTCTGG	TTCAAGAAAA	AGAACATCCT	GCCAGAAATC	GTGATCATTC	7800
TTGACGGCA	TCCAAGCATT	TTCAAGGAGT	TCGTGAATGC	CATACCCAGC	CAGATTGGCT	7860
TTGGTTTAT	AAAGTAGACA	AGTCGGAATT	GATTTTAAAT	TTGCTGAGGA	CAGGCAGTCA	7920
CAGTGATTTA	TTTTAATCTA	TTTTAAGGGG	GTTCTCATGA	AACTAAGAAT	ATTTGCGGAA	7980
SATAAGCCGG	CTAAGAAGGT	ATTTGAATAT	CAATTAGAAC	TTGCTGATCG	TACAATTCTT	8040
TATCGACAG	CACTCTTGTC	AGGTGCTATT	GCTTTAGCAG	GAATCTTTTC	TGCTTTGAAA	8100
AAAAATAAA	AATAGAAAAG	AGAAAACAGA	ATGGTTTTAC	CAAATTTTAA	AGAAAATCTA	8160
BAAAAATATG	CGAAATTGTT	GGTTGCGAAC	GGAATTAACG	TGCAACCTGG	TCACACTTTG	8220
CTCTCTCTA	TTGATGTGGA	GCAACGTGAA	TTGGCACATC	TAATCGTGAA	AGAAGCTTAT	8280
CCTTGGGTG	CGCATGAGGT	CATCGTTCAG	TGGACAGATG	ATGTGATTAA	CCGTGAGAAA	8340
TCCTCCATG	CCCCGATGGA	GCGTTTGGAC	AATGTGCCAG	AATACAAGAT	TGCTGAGATG	8400
ACTATCTCT	TGGAGAATAA	GGCTAGCCGT	CTTGGAGTTC	GTTCATCTGA	TCCAGGTGCC	8460

TTGAACGGAG	TGGACGCTGA	CAAGCTTTCA	642 GCTTCTGCTA	AAGCTATGGG	ACTTGCCATG	8520
AAGCCTATGC	GTATCGCAAC	TCAATCTAAC	AAGGTTAGCT	GGACTGTAGC	AGCTGCAGCA	8580
GGACTTGAGT	GGGCTAAGAA	AGTCTTCCCA	AATGCTGCGA	GCGACGAAGA	AGCAGTTGAT	8640
TTCCTTTGGG	ACCAAATTTT	CAAAACTTGC	CGTGTCTACG	AAGCAGATCC	TGTTAAGGCT	8700
TGGGAGGAAC	ATGCAGCCAT	TCTCAAGAGC	AAGGCCGATA	TGCTTAATAA	GGAGCAATTT	8760
TCAGCCCTTC	ACTACACAGC	GCCAGGAACA	GATTTAACAC	TTGGTTTGCC	AAAGAACCAC	8820
GTTTGGGAAT	CAGCTGGTGC	TGTCAATGCA	CAGGGCGAAG	AATTCTTGCC	AAATATGCCA	8880
ACAGAAGAGG	TCTTCACAGC	GCCTGACTTC	CGTCGTGCAG	ATGGTTATGT	CACTTCTACA	8940
AAACCGCTTA	GCTACAACGG	AAATATCATT	GAAGGCATTA	AGGTGACCTT	TAAGGATGGA	9000
CAAATCGTAG	ATATCACTGC	TGAGAAGGGT	GATCAGGTTA	TGAAAGACCT	TGTCTTTGAA	9060
AATGCGGGTG	CGCGTGCCTT	GGGTGAATGT	GCCTTGGTAC	CAGATCCAAG	TCCAATTTCT	9120
CAGTCAGGCA	TTACCTTCTT	TAACACCCTT	TTCGATGAAA	ATGCGTCAAA	CCACTTGGCT	9180
ATCGGTGCAG	CCTATGCGAC	TAGCGTTGTT	GATGGAGCGG	AGATGAGCGA	AGAGGAGCTT	9240
GAAGCTGCAG	GGCTTAACCG	TTCAGATGTT	CACGTAGACT	TTATGATTGG	TTCTAACCAA	9300
ATGGATATCG	ATGGTATTCG	TGAGGATGGA	ACGCGGGTAC	CTCTTTTCCG	TAATGGGAAT	9360
TGGGCAAATT	AAGGAGATAA	TATGTTAGGA	AGTATGTTCG	TTGGTCTCCT	AGTGGGATTT	9420
TTAGCAGGTG	CTATGACCAA	TCGTGGAGAG	CGAATGGGAT	GTTTTGGAAA	AATGTTTCTC	9480
GGTTGGATCG	GAGCCTTTCT	AGGTCACTTG	CTCTTTGGAA	CTTGGGGGCC	AGTTTTATCA	9540
GGAACAGCTA	TTATCCCAGC	GATTTTAGGA	GCCATGATTG	TTTTAGCTAT	TTTTTGGAGA	9600
CGAGGAA					,	9607
(2) INFORMA	TION FOR SE	Q ID NO: 81	L:			

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 14231 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double
   (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 81:

CTACAAGATA	ATTCCAGCTA	TAACATCCGC	TATAATAGTA	AGAGCGAGCT	CTATGATAAG	60
GCTCATTAGT	TTCACCTCCT	CTCACGAACC	CATAGGAACG	TAATCGGTAA	CCGATGACAA	120
aaatagtata	CCACAATACA	TTTAGATCAT	CAAGGTCACT	TAATTCTTGA	AATATCAGAT	180
CTAAGAGAAA	AATCTTTAAA	ATCAGAAAAA	CGCATAATAT	CAGGTGTGCA	AAAACTTGAT	240

ACTATGCGTT	TTATTGTGGG	AAGGTTTACT	CCATTTTCTC	CTGAAATTGA	GTTTTTGTCC	300
AGCCTCTGTT	TTTAGGGTTG	CTAAGAAAAT	AATGTCATGT	GGTGAATATT	TGTAAATCAG	360
TCAGCAGACA	GAACGATACT	CTTCGAAAAT	CTCTTCACAT	CATGTCAGCT	TCGTCTTTCC	420
GTATATATGT	GACTGACTTC	ATCAGTTCTA	TCTACAACCT	CAAAACAGTG	TTTCGAGCTG	480
ACTTGATCAA	TTTTCAAATC	TGTACTTTGA	GCAAGCTGAG	ACTAGCTTCC	TATTTGATTT	540
TCATTGAATA	TCAGAAACCC	ATTCTCCATC	AAATAATTCG	ACTGCGTCTA	ATAATTTTTG	600
ATCTGGCACG	GTGTCTGAAA	TAAAGGTTGT	GTATTTGGAG	AGGGGATTAA	ТТТТАААААА	660
rccagtcttg	TAAAATTTAG	AACTATCAAT	CAGTAAGATG	GTTTCATGGG	CTTTGTCAAT	720
AATATTCTTT	TTTGAAATAG	CTTGGCTGAG	AGAAGCTTCA	TAAACATATT	GGTCATCAAT	780
ACCTCTTGCT	GAACAAAATG	CTAAATCGAT	ATTAAAATGA	TCTAATAAAG	AATTTTCCTT	840
ATCATAGTTG	ACCACGGAAC	AGGATTGATG	TTTGACCTCG	CCAGATGTGA	TAAAGATTTT	900
GGAGCTATCT	TTAACAGTTT	CAGATAGGGT	TTGTGCAGTA	TGTAAACCAT	TTGTAAAAAT	960
AATCAAATTA	TCAAGTTCAG	AAAGATAGGG	ACAGAGTTCG	TAGACAGTAG	TACTAGAATC	1020
<b>FAGATAGATA</b>	CACATACCAG	ACCGAATAAA	GTCTTTAGCG	AGACTAGCGA	TTAGTCTTTT	1080
<b>TTGCCTAGTA</b>	CTTTCTCCTT	CACGTATTTG	ATGAGAAAGT	TCAATTGTGT	TCATAGAGGA	1140
CAGGGTCACG	TATCCGTGCT	TTCTTTTGAT	AAGACCTTGA	TTTTCTAAGA	AAATTAAATC	1200
ACGACGTAAG	GTACTTGTGC	TGGAGAAAGT	GATTTCTGCC	AGCTCTTTTA	CGGCAATTCT	1260
PTTTTTCTTT	TTGATAATTT	CAATCAATTC	AAGTACACGT	TCATCTTTTA	TCATAAGCTC	1320
TCCTAATTT	ATCATTTCAA	СТАТАТТАТА	GCACAAATTG	GAGGAATTTG	AATTATTTTT	1380
ATGAATATTG	GGTTAACATT	TGAACATTAT	TCAAGTAAGC	GTTCACATAT	TGAAAAAATA	1440
AAACGTGGGG	ATTATAATAA	AGTTAATCMA	GGACGAAGAG	AGAAGAAAA	TGGAAGCGGT	1500
PTTAGCAATA	GATTTAGGTG	CGACTTCTGG	AAGAGCAATC	GTTGGTTACC	TTTCTGAAAA	1560
PAAACTAGTA	ATGGAAGAAA	TAAATCGCTT	TTCTAATCTA	CCTATTAGAG	TAAAAGGGCA	1620
TTATCTTGG	GATATTGACT	TTCTACTAGC	TAÄAATTCTT	GAAAGTATCC	GCTTGGCTAA	1680
PACTAGTTAC	AAGATTTTAT	CTATCGGTAT	TGACACATGG	GGAGTTGATT	TTGGACTGAT	1740
GATAATGAA	GGTAAGCTGT	TATTACAACC	TGTTCATTAT	CGTGATGAAA	GAACAAAGGG	1800
GTGTTAAAG	GAAATATCTG	AAATGACTGA	attagaaaaa	CTGTATTCAG	AGACAGGAAA	1860
CAGATTATG	GAGATAAATA	CCTTGTTTCA	ACTCTTTAAG	GCACGTCAAG	AATCTCCTGA	1920
тстттстат	AAGACCAATA	AGATTCTTT	AATGCCAGAT	<b>ጥተርጥጥ</b>	Aጥርጥርጥጥር AC	1980

644 AGGTAAGTTT GCTACAGAAA AAAGCATTGC TTCAACAACT CAATTATTTG ATCCTAGGAG 2040 TCAAAATTGG AATCAGAATA TCTTAAAACT ATTTGAATTG GATTCATCTT TACTTCCTGA 2100 AATTGTTTCA GAGGGAAATG TTCTTGGAAG GATAAAAGAG GAGTATGGTT TAGGCGATAT 2160 TCCTGTTGTG AATGTTTGTA GTCATGATAC AGCAAGCGCG ATTGTCTCAG TACCTAAGAC 2220 AGAAGGTAGT TTATTTATTT CATCAGGTAC TTGGTCTTTG GTTGGAGTGG AACTTACTTC 2280 ACCGATTCTT ACTACCGAAT CCTTCAGTTA TGGATTTACA AATGAAGTCG GTAAAGATGG 2340 AGTGATTACA TTTCTGAAGA ATTGTACAGG GTTGTGGATC ATAGAGGAAC TAAGACGTTC 2400 ATTTGAACGA AGAGGGAAAG CCTATTCTTT TGATGATATT AGGACAATGG TGGAGAAAGA 2460 AAAAGAAAAT CTTCCTCTGA TTGATACTGA ATCAACTGAA TTTGCAACAG AATCTGATAT 2520 GCACAAGACT TTGACAGAAT ATCTAGCTTA TCATCATGAA ACTAGAGAGT GGACAGATGG 2580 ACAACTATTT AAGATTGTTT ATGAAAGCCT AGCTGAAACG TATAGGAAAG CGATAGAGTT 2640 ACTAGAAGAA CTAACTCATA AGGTTTATAA GAGGATATAT GTGATTGGAG GAGGTGCTAG 2700 AGCCAGTTAC TTTAACCAAA TGATTGCTGA TAGAACTGGT AAAGAGGTTC TTACAGGTTT 2760 GACTGAGGCT ACAGCTGTGG GGAATATTGT TGTGCAGCTC ATAGCTATGG GACAATTAAA 2820 AGGGATGGAA GAGGCTCACC ATGTTATTGA GGAGTTTCTA CAATTAGAGA GTTATTACTC 2880 CCAAAAGAAT TAAAAAGATT GAGAGTTTGT AAATTTGCCT CCCTCCCCCT TCTTAGCTTT 2940 TGTGCAGGAA GGGGGGATAA TTGGTGAATT GAAAAATATT TAGTGTTTTG ATATGAGGAG 3000 GACAAGGATG TCAGATGTAA AACAAGAATT AATTAAATAT GGTAAGAAGC TAGTAGAAAC 3060 AGATTTGACG AAAGGAACAG GTGGGAATCT CAGCGTTTTC GATCGTGAAA AACAATTGAT 3120 GGCAATTACC CCGTCGGGTA TTGATTTCTT TGAAATCAAA GAATCCGATA TTGTAGTGAT 3180 GGATATTAAT GGAAATGTTG TAGAGGGAGA ACGCTTGCCA TCTAGCGAAT GGTATATGCA 3240 TTTGATTCAA TATCAAACTC GTGATGATAT CGATGCAATT ATCCATGCTC ATACAACTTA 3300 TGCAACAGTA TTAGCTTGTC TCAGAGAACC ACTTCCAGCG AGTCATTATA TGATTGCAGT 3360 GGCAGGGAAA GATGTTCGGG TAGCTGAGTA TGCAACATAT GGCACGAAAG AATTGGCTGT 3420 GAATGCAGCT AAAGCAATGG AAGGTCGTAG AGCAGTTTTA CTAGCGAATC ATGGAATTTT 3480 AGCAGGTGCA CAAAATTTAT TGAATGCATT TAATATTGTT GAAGAAGTTG AATATTGTGC 3540 AAAAATTTAT TGTTTAGCTA AGAATTTTGG AGAGCCAGTA GTTCTTCCTG ATGAGGAGAT 3600 GGAATTGATG GCAGAAAAAT TTAAAACATA CGGTCAGAGA AAATAGGGAG GATATTAATG 3660 TTAAAACATA TACCGAAAAA TATTTCTCCA GATTTATTGA AGACTTTAAT GGAAATGGGA 3720 CATGGAGATG AAATAGTATT AGCTGACGCG AATTATCCTT CTGCCTCATG TGCAAATAAG 3780

CTAATTCGTT	GTGATGGTGT	AAATATTCCA	GAATTATTAG	ATTCCATTCT	GTATTTAATG	3840
CCATTAGATA	GTTACGTCGA	TAGTTCAATT	CAGTTTATGA	ACGTTGTTTC	GGGTGATGAT	3900
ATTCCTAAGA	TATGGGGTAC	CTATAGACAG	ATGATTGAAG	GTCATGGTAC	AGATCTTAAA	3960
ACGATTACTT	ATCTTAGAAG	AGAAGACTTT	TATGAACGTA	GTAAGAAAGC	TTATGCTATT	4020
GTTGCTACAG	GAGAAACTTC	ACTITATGCT	AATATTATCC	TTAAGAAAGG	AGTAGTTGTT	4080
GAAAGAGAAA	ATGTTCAATA	GAGGAATTTT	AGTTGCCAGT	CATGGTAATT	TTGCTAGCGG .	4140
AGCTCTCATG	ACCGCAGAAA	TGTTTGTTGG	TGAGACAACA	AATGATAGAG	TTAGGACATT	4200
AGGTTTGATG	CCTGGAGAGA	ATATTGTAGA	GTTTGAGCAT	AAAATTTTAAA	ATCAAGTGGA	4260
TGAACTGTTA	GACTCAAATC	AAGAGGTTAT	CGTTTTGACT	GACTTGATTG	GAGGAAGTCC	4320
TAATAATGTG	GCTTTGTCAC	GGTTTTTAAA	TTTGGATTCA	GTTGATATTG	TAACAGGGTT	4380
TAATATCCCT	CTCCTAGTGG	AATTAATATC	AAGTTATGAT	TCAAAAATCA	ATTTAGAAGA	4440
AATTGTTCAC	AATGCTCAAA	ATAGTTTGTT	TAATGTTAAA	CAACAACTTA	ACGTAGAGGA	4500
GGAAGAAGAT	TTATGTCTAT	AGAGTTTGTT	CGTATTGATG	ACCGTCTGGT	ACATGGTCAA	4560
GTTGTCACTA	CGTGGCTAAA	AAAGTATGAT	ATTGAGCAAG	TTATCATTGT	TAATGATCGC	4620
ATCTCAGAAG	ATAAAACACG	ACAATCTATT	TTAAAGATTT	CTGCACCGGT	AGGTTTAAAA	4680
ATTGTTTTCT	TTAGTGTAAA	ACGGTTTGTG	GAAGTTTTAA	ACTCTGTGCC	AATAAAAAAG	4740
AGAACAATGC	TGATATATAC	AAATCCAAAA	GATGTGTATG	ATTCTATTGA	AGGAAATTTA	4800
AAATTGGAGT	ACCTCAATGT	AGGACAGATG	AGTAAAACGG	AGGAAAATGA	AAAGGTAACG	4860
GGAGGTGTAG	CTCTAGGTGA	AGAAGACAAA	TATTATTTTA	AGAAAATAGT	TGATAAGGGA	4920
ACGAGAGTTG	AAATTCAAAT	GGTTCCTAAT	GATAAAGTTA	CAATGTTGGA	ATTTTTAAAA	4980
ТААЛААТА	TTAAGGAGGT	ACAGTATATG	CTATTCACAC	AAGCATTACT	GGTGACATTA	5040
GTTGGGATTA	TTGCCACTAT	TGACTATAAT	GGACCGTTAT	TTATGATTCA	CCGTCCGTTA	5100
GTTACAAGTG	CAATGGTTGG	CTTAGTATTA	GGAGATTTCA	CCCAAGGTGT	TCTTATTGGT	5160
TCAGCTCTTG	AATTAACTTG	GCTCGGTGTA	ACAGGTATTG	GAGGTTATAC	TCCACCAGAT	5220
ACTATTTCAG	GTGCGATTAT	TGGTACTGCA	TTTGGTATTT	TATCTGGTCA	AGGAGAAACT	5280
GCTGGTATCG	CTATAGCAGT	TCCAATTGCA	GTTGCTACCC	AACAGTTGGA	TGTTCTTGCA	5340
AAAACTTTAG	ATGTTTATTT	TGTGAAAAA	GCTGATAATG	ATGCTAAAAA	CGGAGATTAT	5400
TCAAAGATCG	GTTTTTATCA	TTATTCAAGT	TTGGTTTTAA	TCACGTTATT	TAAAATTGTA	5460
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			646			
CCACCAATCG	TTATGCAGGG	ACTTAACTCT	GCAGGTGCTT	TACTACCTTC	AATTGGTTTT	5580
GGTATGCTTT	TAAATATGAT	GCTCAAGAAA	AATATGTGGG	TATTCTTGTT	GATTGGATTC	5640
ATTTGTTCTG	TGTATGGAGG	AATGTCAACC	ATTGGGATCT	CACTAGTTGG	TATTGCGGTA	5700
GCATACTTCT	ACGATATGAT	TGGAAGCAAA	CCACAAGAAA	CAACTTCAAG	TAGTGATGTT	5760
GAGGAGGATC	TTGATCTATG	ATGAATAATA	AAGTAACTAA	AGTTGAACTT	AAAAAGTTT	5820
TCAAACGAAG	TTTTATGTAT	GGTTCTTCAT	GGAACTATGA	GAGAATGCAG	AACCTAGGTT	5880
TTCTATATAC	AATTCTTCCA	GTATTGAAAA	AACTATACCC	AGACAAAGAT	TCAGCTTCTC	5940
CTGCAATGAA	ACGTCACCTT	GAGTTTTTCA	ATACTCATCA	AACAGCGGCA	CCATTTATTC	6000
TTGGAGTTAC	TTCCGCTATG	GAAGAACAAG	AAGGAAATGA	AGGTGCAGCT	TCAATTACTG	6060
GTATTAAAGT	TGGCTTGATG	GGGCCACTGG	CTGGTCTAGG	AGATAGTTTG	TTCTGGCTGA	6120
CACTAGTTCC	TATCTGTTTT	AGTATTGGTG	CGTCTTATTC	TAAAGACGGC	GGTGCTTTAG	6180
GTATCTTTAT	CGCCTTAATA	TTGTTTAATA	TTATTAATAT	TCCTGTTAAA	TATTTCGGTT	6240
TGAAATATGG	GTATACTAAG	GGTTCTAGTC	TTATCCAAGA	AAATAATACA	AAAGGAACAT	6300
TGAATCGCGT	TACGAGTATG	GCGACAGCAT	TAGGGCTAGT	ACTAGTGGGT	GGTTTGATTC	6360
CATCAATGGT	TGGTATTAAT	TTTGGATTAG	AATTTAAGCA	GGGGGAACTT	GTTATTTCTG	6420
TTCAAGAAAT	GATTACAAAA	TTAATTCCAG	GATTTATCCC	TATGGCTTTG	ACTTTATTAA	6480
TGTGTAAATT	AATTAGAAAA	GGAAAGAATC	CGGTTGTACT	AATCTTTAGT	GTTATGGCTA	6540
TTGGAGTTAT	TCTAGTTGTT	TTAGGAATTT	TGAAGTAGTA	GAAAGTGTGG	AGGTGGTATT	6600
TGGGATATCA	CCTCCATTTT	GGAAGAGAGG	TAAAGAGTGA	AATTATGGTA	TAAGAAAGCT	6666
GCCGCAAATT	GGAATGAAGC	CTTGCCGATT	GGGAACGGTC	ATTTAGGTGG	TATGATTTAT	6720
GGTTCAGCTA	CAAAAGAATG	TATTCAACTA	AACGATGAGA	CTATTTGGTA	TAGAGGAAAG	678
TCAGATAGAA	ATAATCCAGA	CTCACTATTG	САТСТТАААА	AAATTCGGGA	ATATCTTTTA	6840
GATGGAGAAA	TTCAGAAAGC	CGAAGAATTG	ATAAAGTTAA	CAGTGTTTGC	TACCCCAAGA	6900
GATCAAAGCC	ACTATGAATT	ACTTGGGGAA	CTTTACATTG	AGCATATAGA	TATTCAGTCT	6960
TGTGCTCTTT	CATTGTATGA	AAGAGAGCTA	GATTTAGATA	CAGCTATTTC	TAATGTTGTG	7020
TTTGAGCCTA	ATAGTTGTAA	TTTACAAATA	AAAAGAGAAT	ATTTTACGAG	TTTTAATAAG	7086
AATATTTTAT	GTTGCCGTAT	AGTGTCATCA	GTTCAAAACA	CATTAAATTT	AAACATTAAT	7140
TTGGGTAGAA	ATAAACGGTT	TAATGACGAA	GTATCTAAAC	TGGATTCAAG	TACAATTTTA	720
ATGTCGGCCT	CTGCTGGAGG	TAGAAAAGGT	GTTCAGTTTA	AAGTAGTATG	TCATTCTAAG	7260
GTTACGGATG	GTGAAGTAAG	TGTATTGGGA	GAGACAATAG	TTATTCGGAA	TGCTACAGAG	7320

GT/	\TTTCTTT	ATCTCAAATC	AATGACGGAT	TATTGGGGAA	ATATAGATAT	TTCTTCTCTT	7380
CAC	GGAGAAT	TTAGTAGTAT	TGATTACTTT	ACAGAAAAAG	ATGAACATGT	ААААААТАТ	7440
CAC	GAGCAAT	TTAATAGAGT	TGATTTTAAA	CTAGACTATA	GTAAAGGTTG	TCTTAGCATT	7500
CCA	ACGAATC	TACTTCTTGA	AAACACTAAA	AAGTATAGTA	ACTACTTGAC	TAACTTGTTA	7560
rrı	CATTATG	GAAGATATCT	GTTAATATCG	TCTAGTCAAC	CGAATGGTTT	ACCTGCCAAT	7620
CTI	CAAGGAA	TATGGTGTGA	TGAATTAAAT	CCAATTTGGG	GTTCTAAATA	TACGATTAAT	7680
LTA	PAATACTC	AAATGAATTA	TTGGATGGTA	GGTCCATGTG	ATTTACCAGA	AGTAGAATAT	7740
CCA	\TTATTTG	ATATGCTCGA	AAGAATGAGA	GAACCGGGAA	GACTAACCGC	TAAGAAAATG	7800
rat	GGAGCTA	GAGGTTTTAC	AGCACATCAT	AATACGGATG	GTTTTGGCGA	TACGGCTCCC	7860
CAA	TCTCATG	CCATGGGGGC	TGCAATTTGG	GTATTAACTA	TTCCATGGTT	ATGTACTCAT	7920
PP	TGGGAAC	ACTATTTATA	TTTCCAAGAT	GAGCGTATTC	TTACGGAACA	TTTTGAAATG	7980
ATA	AAAGAAG	CATTTCTTTT	CTTTGAAGAT	TATTTATTTG	AGGTGGATGG	CTACTTGATG	8040
ACA	GGTCCAA	GTGTCTCACC	GGAAAATAAA	TATCGCTTAA	AAAATGGTAT	TGAAGGAAAT	8100
CT	TGTCTAT	CATCTACAAT	TGATAATCAA	ATTCTAAGAT	ATTTTTGTGA	TTCATGCATT	8160
GC	ATTGCAA	AACAATTAGG	AGACAATTCG	GATTTTATTA	GTCGTGTGAA	GGAGTTAAAA	8220
<b>AA</b> G	AAACTAC	CTAAAACAAA	AATAGGTAGT	AATGGGCAAA	TCCAAGAATG	GTTAGAAGAT	8280
TAT	GAAGAAG	TAGAGCCTGG	GCATAGACAC	ATTTCACCTC	TATTTGGGCT	TTATCCTTAT	8340
\AT	GAGATTG	ATATTCATAA	AACTCCGGAA	TTAGCAGAAG	CAGCTAAAAT	CACTATCAAT	8400
AGG	AGATTAT	CAAACGCTAA	TTTTTTATCT	TCACAGGAGA	GGGAGCAAGC	GATTAATAAT	8460
(GG	TTAGTAA	GTGGTTTGCA	TGCTAGTACA	CAAACAGGTT	GGAGTGCTGC	ATGGCTGATT	8520
CAT	TTTTTTG	CGAGACTATA	TCAAGGTGAA	CCTGCTTATA	ACCAGATTAA	TGGTTTGTTA	8580
AT	AATGCGA	CTCTTGGCAA	TTTATTTCTT	GACCATCCAC	CATTTCAAAT	TGATGGTAAT	8640
TA	GGTTTGG.	TGAGTGGAAT	TTGTGAATTA	TTAGTACAGA	GCCATCATAA	TTGGTTATCA	8700
TA	ATTCCAG	CTTTACCTTC	TGCTTGGTCA	GAAGGAGAAG	TGAAAGGTTT	CAGAGTAAGA	8760
GA	GGATATA	AGGTATCGTT	TGCTTGGAAA	AATGGGGATA	TAACATTCCT	AAAATTGGAA	8820
GA	GGAAACA	AAGATCAAAA	AGTAAGAGTA	AGAATATATG	GCAAAAATAC	TGATGTACAA	8880
LAT	ATTGAAT	TGGTATTTAA	TTCAGAAAAA	ATTATTGAGT	TAAATTTTTA	GGTATAAGTC	8940
ТG	AATAAAG	аааааатааа	AAGAAAATTA	ATCACAATAT	TGTTTGTATG	TATTGGGATG	9000
TA	TGTTTTG	GATTGTTAGC	AGGAGTTAAG	GCTGATAATC	GTGTTCAAAT	GAGAACGACG	9060

ATTAATAATG AATCGCCATT GTTGCTTTCT CCGTTGTATG GCAATGATAA TGGTAACGGA 9120 TTATGGTGGG GGAACACATT GAAGGGAGCA TGGGAAGCTA TTCCTGAAGA TGTAAAGCCA 9180 TATGCAGCGA TTGAACTTCA TCCTGCAAAA GTCTGTAAAC CAACAAGTTG TATTCCACGA 9240 GATACGAAAG AATTGAGAGA ATGGTATGTC AAGATGTTGG AGGAAGCTCA AAGTCTAAAC 9300 ATTCCAGTTT TCTTGGTTAT TATGTCGGCT GGAGAGCGTA ATACAGTTCC TCCAGAGTGG 9360 TTAGATGAAC AATTCCAAAA GTATAGTGTG TTAAAAGGTG TTTTAAATAT TGAGAATTAT 9420 TGGATTTACA ATAACCAGTT AGCTCCGCAT AGTGCTAAAT ATTTGGAAGT TTGTGCCAAA 9480 TATGGAGCGC ATTTTATCTG GCATGATCAT GAAAAATGGT TCTGGGAAAC TATTATGAAT 9540 GATCCGACAT TCTTTGAAGC GAGTCAAAAA TATCATAAAA ATTTGGTGTT GGCAACTAAA 9600 AATACGCCAA TAAGAGATGA TGCGGGTACA GATTCTATCG TTAGTGGATT TTGGTTGAGT 9660 GGCTTATGTG ATAACTGGGG CTCATCAACA GATACATGGA AATGGTGGGA AAAACATTAT 9720 ACAAACACAT TTGAAACTGG AAGAGCTAGG GATATGAGAT CCTATGCATC GGAACCAGAA 9780 TCAATGATTG CTATGGAAAT GATGAATGTA TATACTGGGG GAGGCACAGT TTATAATTTC 9840 GAATGTGCCG CGTATACATT TATGACAAAT GATGTACCAA CTCCAGCATT TACTAAAGGT 9900 ATTATTCCTT TCTTTAGACA TGCTATACAA AATCCAGCTC CAAGTAAGGA AGAAGTTGTA 9960 AATAGAACAA AAGCTGTATT TTGGAATGGA GAAGGTAGGA TTAGTTCATT AAACGGATTT 10020 TATCAAGGAC TTTATTCGAA TGATGAAACA ATGCCTTTAT ATAATAATGG GAGATATCAT 10080 ATTCTTCCTG TAATACATGA GAAAATTGAT AAGGAAAAGA TTTCATCTAT ATTCCCTAAT 10140 GCAAAAATTT TGACTAAAAA TAGTGAGGAA TTGTCTAGTA AAGTCAACTA TTTAAACTCG 10200 CTTTATCCAA AACTTTATGA AGGAGATGGG TATGCTCAGC GTGTAGGTAA TTCCTGGTAT 10260 ATTTATAATA GTAATGCTAA TATCAATAAA AATCAGCAAG TAATGTTGCC TATGTATACT 10320 AATAATACAA AGTCGTTATC GTTAGATTTG ACGCCACATA CTTACGCTGT TGTTAAAGAA 10380 AATCCAAATA ATTTACATAT TTTATTGAAT AATTACAGGA CAGATAAGAC AGCTATGTGG 10440 GCATTATCAG GAAATTTTGA TGCATCAAAA AGTTGGAAGA AAGAAGAATT AGAGTTAGCG 10500 AACTGGATAA GCAAAAATTA TTCCATCAAT CCTGTAGATA ATGACTTTAG GACAACAACA 10560 CTTACATTAA AAGGGCATAC TGGTCATAAA CCTCAGATAA ATATAAGTGG CGATAAAAAT 10620 CATTATACTT ATACAGAAAA TTGGGATGAG AATACCCATG TTTATACCAT TACGGTTAAT 10680 CATAATGGAA TGGTAGAGAT GTCTATAAAT ACTGAGGGGA CAGGTCCAGT CTCTTTCCCA 10740 ACACCAGATA AATTTAATGA TGGTAATTTG AATATAGCAT ATGCAAAACC AACAACACAA 10800 AGTTCTGTAG ATTACAATGG AGACCCTAAT AGAGCTGTGG ATGGTAACAG AAATGGTAAT 10860

TTTAACTCTG	GTTCGGTAAC	ACACACTAGG	GCAGATAATC	CCTCTTGGTG	GGAAGTCGAT	10920
TTGAAAAAAA	TGGATAAAGT	TGGGCTTGTT	AAAATTTATA	ATCGCACAGA	TGCTGAGACT	10980
CAACGTCTAT	CTAATTTTGA	TGTGATTCTA	TATGACAATA	ATAGAAACGA	AGTTGCTAAG	11040
AAACATGTTA	ATAATTTGTC	GGGTGAATCT	GTTAGTCTAG	ATTTCAAAGA	AAAAGGAGCA	11100
AGGTATATTA	AAGTTAAATT	ACTAACGAGT	GGAGTGCCTT	TGAGTTTAGC	AGAAGTAGAG	11160
GTTTTTAGAG	AATCAGATGG	TAAGCAATCT	GAAGAGGATA	TAGATAAAAT	AACAGAAGAT	11220
AAAGTAGTCT	СТАСАААТАА	GGTAGCTACT	CAAAGTTCAA	CCAATTATGA	GGGTGTAGCT	11280
GCTTTAGCAG	TTGATGGTAA	TAAAGATGGA	GATTACGGAC	ATCATTCGGT	GACTCATACT	11340
AAGGCAGATT	CTAACGCTTG	GTGGCAGGTC	GATCTGGGAG	AAGAGTTTAC	GGTTTCTAAA	11400
GTTGATATTT	ATAATAGAAC	AGATGCCGAA	CCTCAGCGTT	TATCTAATTT	TGATGTTATT	11460
TTTCTATCTT	CATCAGGAGA	AGAAGTTTTT	AGAAGACATT	TTGATAAAGT	AGTTGATGGT	11520
TTGTTATCTT	TAAAAGTACC	TTCTGTAGGG	GCTAAGCTAG	TCAAAATAGA	АТТААААТСА	11580
GCAGCTATTC	CGTTAAGTTT	AGCGGAAGTT	GAAGTCTATG	GTTCAAAGAG	AACTCCGAAG	11640
AAACTTTCTA	ATATTGCATT	AACAAAAGAA	ACTCGACAGA	GTTCAACGGA	TTACAATGGT	11700
TTTTCTCGTC	TAGCAGTTGA	TGGAAATAAA	AACGGAGATT	ATGGTCATCA	TTCAGTGACT	11760
CATACCAAAG	AAGATTCTCC	TTCATGGTGG	GAGATAGATT	TAGCACAAAC	CGAAGAATTA	11820
Gaaaagttaa	TTATTTATAA	TAGAACAGAT	GCTGAAATTC	AGAGATTATC	AAATTTTGAT	11880
ATTATTATAT	ATGATTCAAA	TGATTATGAA	GTTTTTACAC	AACATATTGA	CAGTTTAGAA	11940
AGCAATAATC	TATCCATAGA	CTTAAAAGGA	CTGAAGGGAA	AAAAGGTTAG	AATTTCTTTG	12000
AGAAGCGCAG	GAATTCCTTT	AAGTTTAGCA	GAGGTAGAGG	ТТТАТАСТТА	TAAGTAATTT	12060
TAAAAATTAT	CACCCAGGCT	ACCGTAAATA	TAATGGAGAT	GGTAGTATGA	AAGAAACAGA	12120
AAAATAAGAG	GAAAATAGTA	TGATTCAACA	TCCACGTATT	GGGATTCGTC	CGACTATTGA	12180
TGGTCGTCGT	CAAGGTGTAC	GCGAATCACT	TGAAGTGCAA	ACAATGAACA	TGGCTAAAAG	12240
TGTGGCAGAT	TTGATTTCAA	GCACATTGAA	ATATCCAGAT	GGGGAACCTG	TGGAATGCGT	12300
GATTTCTCCA	TCTACTATTG	GCCGTGTACC	AGAGGCTGCA	GCTTCCCATG	AGTTGTTTAA	12360
ААААТСАААТ	GTTTGCGCAA	CAATTACAGT	TACACCATGC	TGGTGTTATG	GTAGTGAAAC	12420
TATGGATATG	TCTCCAGATA	TTCCTCATGC	TATTTGGGGA	TTTAATGGGA	CAGAACGCCC	12480
AGGAGCTGTC	TATCTTGCAG	CTGTACTAGC	TTCACATGCT	CAAAAAGGGA	TTCCAGCCTT	12540
TGGGATTTAT	GGAAGAGATG	TTCAGGAAGC	TAGTGACACA	GATATTCCAG	AAGATGTCAA	12600

			650		•	
AGAAAAACTT	TTACGCTATG	CGCGTGCAGC	TCTTGCAACT	GGCTTGATGA	GAGACACTGC	12660
TTACCTATCA	ATGGGTAGTG	TTTCGATGGG	GATTGGTGGT	TCTATTGTAA	ATCCGGATTT	12720
CTTCCAAGAA	TACTTAGGAA	TGCGAAATGA	ATCGGTAGAT	ATGACGGAGT	TCACGCGCCG	12780
TATGGACCGT	GGTATTTACG	ACCCTGAAGA	GTTCGAACGT	GCGCTCAAAT	GGGTGAAAGA	12840
AAACGTAAAA	GAAGGATTCG	ACCATAACCG	TGAAGACCTT	GTTTTAAGCC	GTGAAGAAAA	12900
AGATAGACAA	TGGGAATTTG	TTATTAAGAT	GTTCATGATT	GGACGTGACT	TAATGGTTGG	12960
TAACCCAAGA	CTTGCTGAAC	TTGGTTTTGA	GGAAGAAGCG	GTTGGTCACC	ATGCTTTAGT	13020
AGCTGGTTTC	CAAGGTCAAC	GTCAGTGGAC	AGACCATTTT	CCAAATGGGG	ACTTTATGGA	13080
AACTTTCCTC	AATACTCAGT	TTGACTGGAA	TGGTATTCGA	AAACCATTTG	TATTTGCGAC	13140
AGAGAATGAT	TCACTAAATG	GTGTGTCTAT	GCTCTTTAAT	ТАТСТАТТАА	CAAATACTCC	13200
ACAAATCTTT	GCTGATGTGC	GTACTTATTG	GAGCCCAGAG	GCTGTTAAAC	GTGTAACGGG	13260
ACATACTTTA	GAGGGTCGTG	CTGCAGCTGG	CTTCTTACAT	CTAATCAACT	CTGGTTCTTG	13320
TACATTGGAT	GGTACAGGTC	AAGCTACTCG	AGATGGCAAA	CCTATTATGA	AACCATTCTG	13380
GGAGTTGGAA	GAAAGTGAAG	TGCAGGCTAT	GCTTGAAAAT	ACAGACTTCC	CACCAGCAAA	13440
CCGCGAATAC	TTCCGTGGAG	GAGGATTCTC	AACTCGTTTC	TTGACGAAGG	GGGATATGCC	13500
AGTAACAATG	GTACGTCTCA	ATCTTCTAAA	AGGGGTTGGT	CCAGTGCTAC	AAATTGCAGA	13560
AGGTTACACA	CTTGAACTTC	CTGAAGATGT	TCACCATACT	TTAGATAATC	GTACAGATCC	13620
AGGATGGCCA	ACTACTTGGT	TTGCTCCACG	TTTGACAGGA	AAAGGTGCTT	TCAAGTCTGT	13680
CTATGACGTC	ATGAATAATT	GGGGAGCTAA	TCACGGAGCC	ATAACATATG	GACACATTGG	13740
AGCAGACTTG	ATTACCTTGG	CTTCTATGTT	GAGAATTCCT	GTCAATATGC	ATAATGTACC	13800
TGAGGAAGAT	ATCTTTAGAC	CTAAAAATTG	GTCCTTATTT	GGAACAGAAG	ATCTAGAATC	13860
AGCAGACTAT	CGTGCATGTC	AGTTGTTGGG	GCCACTACAT	AAATAAAACT	TGTTTATATA	13920
GGAGGTGAAC	TTACGTCCCT	CCTATCCTTT	TAAAAAGATT	TGTTAAACAA	TTCACAAATA	13980
ATTGAAAACG	AATACAAAAA	GTAATATAAT	GATGTTAAAT	AGATAGCGCG	GAGGCGCAGG	14040
AGGAAAATTA	TATGGCTATA	TTTTATGTTC	CGGCAGTCAA	CCTTATTGGA	AAAGGTGTTG	14100
TAAATGAAGT	GGGTCCTTAT	ATCAAGGAAC	TTGGCTATAA	AAAGGCACTT	TTGGTGACAG	14160
ATAAGTACAT	CGAAGGCAGT	GATATTTTAC	CTAAGACTTT	AAAACCACTG	GATACAGAAG	14220
GAATCGAATA	<b>T</b>					14231
	•	_				

# (2) INFORMATION FOR SEQ ID NO: 82:

<sup>(</sup>i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 16995 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 82:

AGTTCTCTTA	ACTTTTTTAG	GATGGCATTC	TCCGCTCTCA	GGTACTCATT	TTCTGCTgAA	60
GACGTTCTAA	TTCTGTCCTC	TCTTCAGGTC	TCGTTTTTGG	CTTACGTCCC	ATTTTAGGTA	120
CTCTCCCTCT	TGTTTTCTCA	ACAATAGTAT	ACCCGTTTTT	CCTGTATTGT	GCTAGCCAGT	180
TAAGAAGTAT	CGTACGACTT	GGGAGACCGT	ATTCAAGAGA	AACTCTATCT	TTAGTCCAGC	240
CTTCATGTCA	GACTTTATTA	CTCATTTCTT	GTTTTAAATC	AGGAGAATAG	TAACGATTTT	300
TTCCTTTTTT	GACGAACTCT	ATTCCGTAAC	GATCAATCAA	TTTAATCATG	TACCTAATAT	360
TAGAATTGCT	TATCCCAAAT	TTATTTGAAA	GCTTCTCTAA	GCTATATCCT	TGTTTTCTAA	420
GTTCATAGAT	CTGAACTTTA	TCATCATAAG	TTAGTTTCAT	ААТАААААСА	CCCCAAAAGT	48,0
TAGATTTTTT	CTGTCTAACT	TTTGGGGTGT	AGTTCATGTA	CACCTGATAT	GATGCGTTTT	540
ATAATTTTTA	AGCCTTTTTG	CCCAGCCTCG	TCAAAAGTAA	TGTTTTGACA	CAAAATCTGT	600
GACAAAACTT	TAGTTTTAAA	GGTTTTTAAC	TTTGTATATA	CTAGTTTTAA	GAAAAGGAGG	660
ATGATCTAAT	GGAAGAAAA	GTATCATTGA	AAGTCAGGGT	TCAAAAACTA	GGGACATCGC	720
TTTCAAATAT	GGTTATGCCC	AATATTGGAG	CATTTATTGC	TTGGGGAGTA	TTGACTGCCC	780
TCTTTATCGC	TGATGGCTAT	CTGCCAAATG	AACAGTTAGC	TACTGTTGTT	GGTCCTATGT	840
TAACGTATTT	ATTGCCAATC	CTGATTGGTT	ACACAGGTGG	ATATATGATC	CATGGCCAAC	900
GTGGTGCCGT	TGTAGGAGCT	ATTGCTACTG	TTGGTGCAAT	CACAGGTTCT	AGTGTTCCTA	960
TGTTTATCGG	AGCTATGGTA	ATGGGCCCAC	TGGGAGGATG	GACTATCAAG	AAATTTGATG	1020
AGAAGTTCCA	GGAAAAAATT	CGTCCCGGAT	TTGAAATGTT	AGTTAATAAC	TTCTCAGCTG	1080
GTCTCGTTGG	TTTTGCATTA	TTGCTTTTGG	CTTTCTACGC	AATCGGTCCA	GTCGTATCGA	1140
CTCTTACTGG	AGCTGTTGGG	AATGGTGTTG	AGGCTATTGT	CAATGCTCGC	CTCCTTCCTA	1200
TGGCTAATAT	TATCATCGAA	CCGGCTAAAG	TCCTTTTCCT	CAATAATGCC	CTCAATCATG	1260
GCATTTTTAC	TCCTCTGGGA	GTAGAACAGG	TAGCTCAAGC	TGGTAAGTCA	ATTCTCTTCC	1320
TATTGGAAGC	TAATCCTGGA	CCAGGTCTGG	GAATTCTATT	AGCTTATGCT	GTATTCGGTA	1380
AAGGTTCTGC	TAAATCTTCT	TCTTGGGGGG	CAATGGTTAT	TCATTTCTTC	GGAGGGATTC	1440
ATGAAATTTA	CTTTCCTTAT	GTTATGATGA	AGCCTACTCT	ATTTTTAGCT	GCTATGGCAG	1500

			652			
GAGGTATCTC	TGGAACTTTT	ACTTTTCAAC	TCTTAGACGC	TGGTCTTAAA	TCTCCAGCTT	1560
CACCAGGTTC	TATTATTGCG	ATTATAGCTA	CGGCGCCAAA	AGGTGTTTGG	CCCCATCTAA	1620
ATGTTCTTTT	AGGTGTTTTA	GTGGCAGCAG	TTGTTTCTTT	CCTTGTAGCA	GCCCTTATTC	1680
TTCATGCAGA	CAAGTCAACT	GAGGATTCGC	TCGAAGCTGC	TCAGGCGGCT	ACCCAAGCAG	1740
CTAAGGCTCA	GTCTAAAGGT	CAGTTAGTAT	CAACTTCTGT	TGATGCAGTT	GTTTCGACAG	1800
ACTCAGTGGA	AAAAATCATT	TTCGCCTGCG	ATGCTGGTAT	GGGAAGCTCT	GCTATGGGAG	1860
CTAGTATTCT	TCGAGATAAG	GTTAAAAAAG	CAGGTCTAGA	GATTCCAGTA	TCTAATCAGG	1920
CAATCTCAAA	TTTGCTTGAT	ACACCAAAAA	CATTAATTGT	TACTCAGGAA	GAACTGACAC	1980
CAAGAGCTAA	AGACAAGAGT	CCAAGTGCTA	TTCATGTTTC	TGTTGATAAT	TTCTTAGCGT	2040
CCTCTCGTTA	TGATGAAATT	GTAGCTTCAT	TAACAGGAGC	TTCTCCAATA	GCAGAAATTG	2100
AAGGAGATAT	ACCAACTTCA	GCACCAGTAG	ATAGTCAGGA	AAGTGACCTT	AACCATATTG	2160
ATGCTGTAGT	AGTTGCTTAT	GGTAAAGCAC	AGGGAACTGC	AACTATGGGC	TGTGAAACGA	2220
TTCGGGCTAT	TTTTAGAAAC	AAGAATATTC	GTATTCCAGT	TTCTACTGCC	AAAATTTCAG	2280
aattaggtga	ATTTAATTCT	AAAAACATAA	TGATTGTAAC	AACTATTTCT	TTACAGGCAG	2340
AAGTGCAGCA	AGCAGCACCG	AATTCTCAAT	TTCTTATTGT	GGATAGTTTA	GTAACAACAC	2400
CAGAATATGA	CAAAATGGCT	GCTAGAATGT	ACAAATAGAA	CTAGAGGTTT	CTAAATTACG	2460
AATGCTATTA	ACCAAACGAG	AAGAACAATT	ATTGAAGGCT	TTCCTACATG	TAGGGAAGCT	2520
TTCAATGCAA	GATATGACTG	AAATCTTACA	GGTTTCATCT	AGAACAATTT	ATCGAACTTT	2580
ATCAGATTTG	ACAGATAGCA	TGGAGCAATA	TGGAATCGAA	ATAACGAAGC	ATGGGAAATA	2640
CTATATTTTG	ACTGGAGAGT	TGGATGATTT	GCÇGACAGAA	CTTGAAGTGT	TAGTTGAGTA	2700
TAGTCCCCAA	GAAAGACAAG	AGTTGATTAC	CTATCGCCTT	CTGACTGAGA	GTGGTTTTGT	2760
CACCAATGAA	GCATTGCAAG	AGTGCACGAA	AGTCAGTAAT	GTAACTATTA	TTCAGGATAT	2820
TTCAGATATT	GATAAGCGTC	TTTTAGACTT	TGATCTGAAA	ATTGAACGAC	AAAAAGGTTA	2880
TCGGATTTCT	GGTGATTCAG	TTGGTAAGAG	AAGATTTTTG	GCTATTTTAC	TGACAAACTG	2940
TATCTCAGTA	GCAGATTTTT	CAACCGGTAA	TTTTGGGAGC	TTTGATATTT	TAGAAGCAGA	3000
TAGAACTGGG	CTGGCCAGTC	AGATTGTTAA	TAAGCAACTG	TCAGGTTTTC	CAGATATGGA	3060
TGCTAGGATG	AAGATGTTTT	TTGCGATCTT	GTTATCTCTT	ATAGGTCAGG	AGCAAAACAT	3120
TGAAAATTCA	CCTAATACTA	GTAAGCAGGC	TTTGGAAATT	TCTCAAAAAA	TTTTTCAAGC	3180
TTACTCTAAG	CAGACTGCAC	AATTTTATAG	TATTCAGGAA	ATTATCTATT	TTGCGAGCAT	3240
CTTGGATGAA	TTAATCATTA	AACGTCAGGA	CAATCCGCTC	TTTACGGAGA	AATTTGATGG	3300

TGAATTTTTC	TACAATATTT	CAAATCTGAT	TGATACGGTT	TCCATGTATA	CCAAGATTGA	3360
CTTTTTTAAG	GACAAGGTTT	TATTCAATTT	TCTTTTCCAT	CATATTCGGC	TCAGTTTAGG	3420
CGTCCCTATC	CTTTTTCAGG	GTGAAAATTT	GCCAGAATCT	ATCCAGATTT	TAGTTGAAAG	3480
GAATAAATTT	CTTTATACAG	TCATCAGTCT	TTTAGTGAAT	GATATTTTC	CGAAATATCT	3540
TCATACAGAG	TATGAGTATG	GCATGATTGC	CCTACATTTT	ATCTCTAGCT	TAGGCCGTAG	3600
TCCAGAGATT	TATCCAGTCC	GTGTTTTGCT	TTTAACGGAT	GAACGTCGGG	TCACTAGAGA	3660
TTTATTAGTC	AGTAAAATTA	AGAGTGTTGC	TCCTTTTGTA	GAGTTGATAG	ATATTCAATC	3720
TCTAGTAGAT	TACCACAGTA	TTGATCTCAG	TCAGTATGAT	TATATTTTAT	CTACCAAGCC	3780
GCTGACTAAT	CAGGAAATCG	ATGTAATTTC	TAGTTTTCCA	ACCGTCAAAG	AATTGCTTGA	3840
ATTACAGGAA	CGACTTCAGT	ATGTACAGGC	ACATCGTACA	ATTGTCGCGC	GTGATGCTAT	3900
CGCTCCAGAG	AAAAGTTATG	ACTTGCAAGA	ТТАТТТААТА	TCTAGTAGTC	AGCTTTTGAG	3960
TCAATTCGAG	TTGGTTCAAT	TGGAGAATAA	TCAATCATTT	GAGCACACGG	TAGAACAAAT	4020
CATCCAATAT	CAGAAGAATG	TGAGTGACAG	AGCTTACCTA	ACAAGAAAAT	TGTTATCTCA	4080
CTTCCAGAAT	AGTCCTATGG	CTATTCCTAA	TACTGGTCTG	GTGCTTTTAC	ATAGTCAGTC	4140
TAGCAAAGTA	ACAACAAATA	GTTTTACTAT	GTTTGAACTC	AAACTACCTA	TCTCCGCATT	4200
GTCAATGAAA	CGAGAGGAAG	AAGAGGTCAA	AAGGTGTCTG	CTAATGCTAA	TGTCTAAAGA	4260
AGCTAGCGAG	GAAGCTAGAG	ATTTAATGAC	AGCTATTAGT	CAGTCGATTA	TTGAAAATCA	4320
TCTTTATACA	GAGATTTACA	AGACGGGAAA	TCAATCCATT	ATTTATCAGA	TGCTAAATAC	4380
TATTTTTAAC	GAAAAAATTA	AGAAATTGGA	GAACTAATAT	GAAACTTGAA	AAACATTTGA	4440
TTAAGCTTAA	TAAACAATTT	TCTAACAAGG	AGGAAGCTAT	TTGTTATTGT	GGGCAAGTTC	4500
TTTATGAGGG	TGGATATGTT	AATGAAGACT	ATATTGAAGC	CATGATTGAG	CGAGATAAAG	4560
AGCTATCTGT	TTACATGGGT	AACTTTATCG	CCATACCGCA	TGGAÄCAGAT	GCAGCAAAAA	4620
ATGATGTCCT	CAAGTCTGGT	ATTACAGTCG	TTCAAGTCCC	TAGAGGGGTT	GATTTTGGGA	4680
ATGTATCTAA	CCCTCAAGTG	GCAACGGTTC	TTTTTGGTAT	TGCTGGTATT	GGTAATGAAC	4740
ACTTAGAAAT	TATTCAGAAA	ATTTCTATCT	TCTGTGCAGA	TGTAGATAAT	GTTCTTAAAC	4800
TAGCAGATGC	TCAGTCAAAA	GAGGAAGTAT	TGCGCTTATT	TGATGCTGTT	GAATAATTGA	4860
ATTTAGTCAT	TTGTCATCTA	GTATATATGT	CCCTCAAATA	GGAAAAGGAG	AAATTGAATG	4920
AAACATTCTG	TTCATTTTGG	TGCCGGTAAT	ATCGGTCGTG	GTTTTATAGG	TGAAATTCTA	4980
TTTAAAAATG	GTTTCCATAT	TGATTTTGTG	GATGTCAATA	ATCAGATAAT	TCATGCTCTG	5040

			654			
AATGAAAAGG	GCAAGTATGA	AATTGAAATT	GCACAGAAAG	GACAGTCTCG	TATAGAAGTA	510
ACTAATGTGG	CTGGCATTAA	TAGCAAAGAA	CATCCTGAGC	AAGTCATTGA	AGCGATTCAA	516
AAGACGGATA	TTATTACTAC	TGCAATCGGA	CCTAATATAC	TCCCTTTTAT	CGCCGAACTT	5220
CTAGCCAAAG	GAATCGAAGC	TCGCCGAGTT	GCAGGAAATA	CACAGGCATT	GGATGTTATG	528
GCCTGTGAAA	ATATGATTGG	CGGGTCTCAA	TTTCTTTATC	AAGAAGTCAA	GAAATATTTA	5340
AGTCCGGAAG	GTTTGACATT	TGCTGATAAC	TACATAGGTT	TTCCAAATGC	TGCAGTAGAC	5400
AGGATTGTTC	CAGCACAAAG	TCACGAAGAT	TCCCTTTTTG	TTGTGGTCGA	GCCCTTTAAT	5460
GAATGGGTCG	TGGAAACCAA	GCGTCTTAAA	AATCCAGATT	TACGTCTAAA	AGATGTGCAT	5520
TATGAAGAAG	ATTTAGAACC	CTTTATTGAG	CGAAAACTTT	TTTCAGTCAA	TTCTGGACAT	5580
GCAACTTCAG	CTTACATTGG	TGCGCATTAT	GGTGCCAAGA	CAATTTTGGA	AGCTCTTCAA	5640
ААТССТААТА	TTAAATCTCG	GATTGAATCT	GTATTAGCTG	AAATTCGGAG	TCTCTTGATT	5700
GCCAAATGGA	ACTTTGATAA	AAAAGAATTG	GAGAATTATC	ACAAAGTCAT	TATAGAACGA	5760
CTTGAAAACC	CTTTCATAGT	GGACGAGGTT	AGTCGCGTAG	CTCGTACTCC	AATCCGAAAA	5820
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TATAAAAACC	TACTTAAAAC	AGTTGGCTAT	GTCTTTGACT	ATCGCGATGT	AAATGATGAA	5940
GAAAGTATTC	GATTAGGTGA	ATTGTTGGCT	AAACAATCAG	TCAAAGATGT	TGTTATACAA	6000
GTTACAGGTT	TAGACGACCA	AGAATTGATT	GAGCAAATTG	TAGAGTATAT	TTAATCTTTT	6060
TCGAAAATCT	CTTCAAATCA	GGTTAGCATC	GCTTTGTCTT	AGGCATATGT	TGTTCTATCT	6120
ACAACCTCAA	AGCAGTGCTT	TGAGCTGACT	CCGTCAGTCT	TATCTGCAAT	CTCAAAACAC	6180
TGTTTGAGTT	ATCTGCGGTA	ATCTTTCTAG	CTTGTCTTTG	ATTTTTGTTG	ттатттатаа	6240
GGTAAAAGAA	GCTGGACAAA	AAGTCTTCAA	AATCGGGAAA	AGGCAGCCTA	TCGGGTGTTC	6300
AAAAATCTTG	ATAGGATGTC	CTTTATTATG	GAAAGCCTTA	TTGGATTTTC	TCCTCAGATT	6360
GAGTTTTTGA	TCAGCTTTAT	GAGATAGGTC	TTGCTAGAGA	TGTAGCCCAT	CATGTTATTT	6420
TTATGGACAG	TGGGAAAATT	GTTGAAAAA	ATAATGCCCA	TCAATTCTTT	AGTCGTCCAA	6480
GAGAAGAACG	AACCAAGCAA	TTTTGGAACG	AATTCTTTCG	AATGCGATCT	ATATAGTAAA	6540
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GAAGTAGAGG	TGTACTATTC	TAGTTTCAAT	CTACTATATA	ACTGAAAAAT	TAGATAAATT	6660
AGTTTTGGAA	AATGACTAAC	CAAAAGATAT	CCAAAGTAGT	CTAAAATTGT	СТАТАСТТТА	6720
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TATTTATAGA	aaatgttata	ATAGACTGTA	TAAAAAATT	TTTAAGGAGA	AATGACAGAA	6840

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GTCAAGACTG	GGTTATCACT	GCTGAAGTCG	TTACAAAACC	TGAAGTAAAA	TTGGGTGACT	7200
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AAGACCAATT	GGTAGGTCAC	TCAGCTGGCG	AAACCGTTGA	TGTTATCGTA	ACATTCCCAG	7500
AAGACTACCA	AGCAGAAGAC	CTTGCAGGTA	AAGAAGCTAA	ATTCGTGACA	ACTATCCACG	7560
AAGTAAAAGC	TAAAGAAGTT	CCGGCTCTTG	ACGATGAACT	TGCAAAAGAC	ATTGATGAAG	7620
AAGTTGAAAC	ACTTGCTGAC	TTGAAAGAAA	AATACAGCAA	AGAATTGGCT	GCTGCTAAAG	7680
AAGAAGCTTA	CAAAGATGCA	GTTGAAGGTG	CAGCAATTGA	TACAGCTGTA	GAAAATGCTG	7740
AAATCGTAGA	ACTTCCAGAA	GAAATGATCC	ATGAAGAAGT	TCACCGTTCA	GTAAATGAAT	7800
TCCTTGGGAA	TTTGCAACGT	CAAGGGATCA	ACCCTGACAT	GTACTTCCAA	ATCACTGGAA	7860
CTACTCAAGA	AGACCTTCAC	AACCAATACC	AAGCAGAAGC	TGAGTCACGT	ACTAAGACTA	7920
ACCTTGTTAT	CGAAGCAGTT	GCCAAAGCTG	AAGGATTTGA	TGCTTCAGAA	GAAGAAATCC	7980
AAAAAGAAGT	TGAGCAATTG	GCAGCAGACT	ACAACATGGA	AGTTGCACAA	GTTCAAAACT	8040
TGCTTTCAGC	TGACATGTTG	AAACATGATA	TCACTATCAA	AAAAGCTGTT	GAATTGATCA	8100
CAAGCACAGC	AACAGTAAAA	TAATCTTAAT	AAACAGAAAA	CCCACCTGAA	TTGGTGGGTT	8160
TTCTGATGCA	CTATTTTCCA	AAAATCTCTT	TGAGGTCTGT	GTCTGTAATC	CCAATCATGG	8220
CTGGGATGCG	GTCCCAGTTT	TCTTCGGTTA	GGATGTAGGA	TTGTTCAGAG	GCACTTGATG	8280
TGACTGTTTC	AGAGACAGCT	TGTTGCTTTT	CTTCAACATT	CTCCAGTAGA	TCACTGAAGC	8340
GTTCAATCAG	ATAGGTTTTT	CGGGCAGTTC	CGATGTGTTG	GGTAGCATAG	TCGAAGGCTT	8400
GTAATTCGCC	TAGTAAGATG	AGTTTGCTTT	TGGCACGTGT	AATGGCTGTG	TAGATGAGAT	8460
TTCGCTCCAG	CATACGTCGG	CTAGCACTAG	TAATCGGTAG	GATGACAACT	GGGAACTCAC	8520
TTCCCTGAGA	CTTATGAATA	CTCATGGCAT	AGGCCAAGCG	AATCTTGTAC	CATTCGTTAC	8580

656 GGGGGTAAGA GACTTCATTA CCATCAAAAT CAATGACAAT CTCGTCTTGT TTCGATTCGG 8640 TGTATTTACC AGGAATCAGG TCTGTGATAG CTCCTAAATC CCCATTAAAG ACATTGATTT 8700 CAGCATCGTT AACCAAATGA ATGACCCTGT CTCTCTTACG ATAGTGACAC TGAGGAGCTT 8760 CAAAACTGAG TTGATCTTTT TGTGGGGGAT TGAGCAGGTC TTGCATGAGC TGATTGATAG 8820 CATCAATCCC TGCCGTCCCT CGGTACATAG GAGCCAGAAC TTGGATATCA CGGGCGGGAA 8880 TACCATTTCT GAGGGCGGCA CCTAAGATTT TTTCAATGGT GGCAGGAATA TGGCCACTAG 8940 CAATTTCAAA GTAGGAACGG TCAGCTTTTT TTTGGGTGAA ATCAGCTGGC AAGATGCCCT 9000 GTCGAATCTG ACTAGCTAGG GTGACGATGG TTGATTCTTT GCTTTGTCGA TAAATTTTTT 9060 CCAAGCGAGT CTGAGGAATC AAAGGAATAT GAAGTAGATC CGCTAGAACC TGTCCAGGAC 9120 TGACAGAAGG TAGCTGATCA CTGTCACCTA CGATGAGGAT CTTACTGTTA GAAGAGATAT 9180 TGGAGAAGAG TTGATTGGCC AGCCAAGTAT CTACCATAGA GAATTCATCC ACGATGATAA 9240 AGTCAGCATC TAGGTAATCT TCCAGATGAC TGGTATCATC GTCACCTGTC ATTCCCAAGT 9300 GGCGATGTAT GGTCGCGCTA GGCAAACCTG TCAATTCATT CATGCGACGA GCAGCTCGAC 9360 CAGTTGGAGC AGCAAGAAGA ATGGGCAGAT TGCTTTTCTT CCTGAAGTCA AGTCCTTCTA 9420 AAAGGGCATA AACAGCAATG ATTCCATTGA TAACAGTTGT CTTACCAGTA CCAGGCCCAC 9480 CTGTCAGGAT AAAGACCTTA TTCTGGATAG CATCACAGAT AGCCTGTTTT TGAATGTTAT 9540 CATACTCAAT TCCCAGTTCT TGCTCGACAG TAGTGATATG TTTTTGAATG GTTTCTAAAT 9600 CATGACTCTT CTGTTTTCCT TTTTCAAGGA TACGAACCAA GTGACTGCGG ATGCCTTCCT 9660 CAGCGAAAAA GAGGCTGTTG TCAAAGATCT TGGTATCAAT CTGCTGAACC TTGTCTTCTT 9720 CGATCAGGTA GGAGAGCTCT TGGGCAACTT GGCTGGGGTC TAGTTCCACG GGACGGGAAG 9780 ACTCAAGGAG AGTAAGGGTT TGTTCCAGCA AATCCCGTGC TTCAACATAG GTGTCCCCTG 9840 TTTCCATACA GGCCTGAAAA AGACTGTGAA CTAGACCGGC GCGGAAGCGT TCAGGAGCCT 9900 GACTTTCGAT GCCTAGTTCC TCAGCTAGTT GGTCAGCAAT GGTAAAGCCC AAACCCTTGA 9960 TATCCTCAAC CAGCTGGTAG GGATAATTTT CAACCACATC AAGGGTTTCT TCCTTGTAAA 10020 AGTCTTGAAT CTGAAAGGCT AGTTTGTTGG GAATGCCGTA GTTGGCTAGT TTGGCCAAAA 10080 TCATCTCCGT TCCGTAGTTG AGACGGAGAG TGGAGACGAA AGCCTCGCGA TTTTTGGCAG 10140 AGAGTCCTGC GATGCCTTCT AACTTTTCTG GGTGTTGCAA AATTTCGTCA ATGGTATTTT 10200 CGCCATAGGT ATCCACGATT TTCTGAGCTG TCTTGAGACC AATCCCCTTG AAATGGCTAC 10260 TTGAAAAGTA CTTGACCAAG CCCTTACTAG TTGGTTTTGC GCGATCATAA CGACTGATTT 10320 GCAGTTGTTC TCCATACTTG GAGTGCTGGA CAATTTGCCC CCAAAAAGTA TAGTCTTCGC 10380

CCTCAATTAC	ATCAGCCATG	GTTCCTGTGA	CAATGATTTC	AAAATCATCA	AAATCCTCTG	10440
CGTCCGTATC	GTCGATTTCT	AGGAGGAGGA	TGCGATAAAA	ATTGCTGGGA	TTTTCAAAAA	10500
TAATCCGTTC	AATAGTTCCT	GAAAAATAAA	CTTCCATAAA	ATTCCTTTGC	ATGAATAGGT	10560
GAGAGTTGGG	ATTGTTTTA	TTTTATACTC	TTCGAAAATA	TCTTCAAACC	ACGTCAGCTT	10620
CCATCTGCAA	CCTCAAAACA	GTATTTTGAG	CTGACTTCGT	CAGTTCTATC	CACAACCTCA	10680
AAACACTGTT	TTAAGCAGCC	TACGGCTAGC	TTCCTAGTTT	GTTCTTTGAT	TTTCATTGAG	10740
TATTTGTAAA	TAAACAATCA	CTTCTCACGA	TAGAAGAAGA	GGCTGAGATT	GGTGATTCTC	10800
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TTCCCCTGTG	ATATCTTTTG	CTTTGAAGGT	ACCTACGTGG	CGGCTGTCGC	TCGAAACCAA	10920
GCGGTCATCT	CCGAGGAGAA	GGTATTCTCC	TTCTGGAACA	GTAAAGCTAA	AGTTGGTGTT	10980
GTAGTTGACA	TCAACTGTGA	AGGCTTGAGC	TTTTTGAGCG	ATACTTCTAA	AGAAAGTTCC	11040
TTTATTTCCT	TCAAAGCCCT	TGCCTGAGTA	AGTGCTTTGG	AGTTTGTCAT	CCTTGAAGCG	11100
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GCCATCTTCC	TCATGGGCCA	CCACGATATC	AAAACGGTCA	ATAGGAAGGT	GTTTTACAAC	11280
GAAGAGAATT	TCGCCATCCG	CTAGGGTCGG	ATCCATGGAA	TGTCCTTCTA	CGCGAACATT	11340
GCTCCAAAAA	AAGATACGAC	TTAAAGCTAG	TAATGACAGA	ATTAGGAGGA	ACAATCCCCA	11400
CTCTTTTAAG	AATTTTTAA	ATGAATTCAT	AACTTACCTT	TCTAAGCGTT	TTTTCGCTTT	11460
TTCAGTGTTT	TTAAAGTGCA	ATTTGGCGCA	GAAGCTGAGT	CCCTGCATAC	CATAGGCTTG	11520
CAAAATCTGG	CTAGCCACCT	TGTCAGAAGC	CGTTCCAGCT	CCACTTGGGA	GCTGATAACC	11580
CAGTTCTCGT	CCCAAATTTT	CAAGATTTTC	CAGAAAGAGA	TCACGCGCAA	TGACAGAAGA	11640
AACTGCGACA	GACAAGTATT	TGCCCTCAGC	CTTTTCTTCT	AAGCTGATAG	GATTGCTGAA	11700
ACGATTGGCC	TCTTGTGCCA	AGTACTTGTC	ATAATTTTTA	GCACTGGTAA	AGGCATCAAT	11760
CACAATTTTC	TCAGGCTGAA	CACCTTTTTG	AAGGAGGAGA	TAGATAGCCT	GATTATGGAG	11820
GGCAACCTTA	ACCGAAACAG	CGTTGTAGCG	GTCTCCGATG	ACCTCGTTGT	ACTTGCTGGG	11880
TGAGAGAAGG	AGTGCCTGGT	GCTGAATTTT	TTCCTTGAGA	ATAGGAGTAA	TCTGACGGAT	11940
CTTTTGGTCG	GTCAGAGTCT	TAGAATCCCC	CACACCGAGT	TTTCGTAAAA	AGTCGTGCTG	12000
GTCAGGTGTG	ACAAAGGCAG	ÇCACAACTGC	AAGCCCACCA	AAGTAGGAAC	CATTTCCCAC	12060
CTCATCTGTC	CCAATTAAAG	GAAGATTTTG	TCCGCTGGTT	TGCTCTACAG	CTTGATAGCC	12120

	AAAGAAACTG	GCGTATTTTT	CAGCCCCTTC	658 ACCCTGAAGC	AAGATTTTTC	CAGAAGTATA	12180
	GATAGAAACC	GTTGCTTGAG	GTAGTTTCAA	AAAGTAGCGG	ATATAGGGAT	TCTTGCTAGG	12240
	AGCCAGACTG	GTTTGATAGT	GTTCAAGAAA	AGCCTGAATA	TCCTTTTCGC	TTGGTGTGAG	12300
	TGTGATACTT	GCCATAGTTT	CTATTGTACC	ACAAAAGCAG	TAAAATTTGT	AAAAACTGAC	12360
	AAAATTAGCG	AATTTTGGTA	TAATATCGTG	AGGTGAATTT	TATGGCAAAT	CTAAATCGAT	12420
	TCAAATTTAC	ATTCGGGAAA	AAATCGTTAA	CCTTGACAAG	CGAACATGAC	AACCTTTTTA	12480
	TGGAGGAAAT	CGCTAAGGTT	GCGACAGAAA	AATACCAAGC	AATTAAAGAA	CAAATGCCTA	12540
	GCGCAGATGA	TGAAACAATC	GCTCTTTTGT	TGGCAGTCAA	CTGTTTATCA	ACTCAGCTCA	12600
	GCCGTGAGAT	TGAATTTGAC	GATAAGGAGC	AAGAGCTAGA	AGAACTCCGT	CACAAGCTTG	12660
	TGACTTGTAA	GCAAGAACAG	AGCAAGATTG	AGGATTCCTT	ATGATTTCAT	TCCTTCTTCT	12720
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	TTACCTGATT	TCAGCCATGG	CATCGGCTTT	TATGGCTGGC	CAGTTTTATA	AGGGGCTTGG	12840
	AGAGCAATTC	CATTTATTGC	TCCCTTATGC	AAATTCGCAG	GAAGGTCAGG	GGACTTTCTT	12900
•	TTTCCCATCG	GATCAACTCT	TTCAGCTGGA	TAAGGTCTTT	TATGCAGGTA	TCGGCTACTT	12960
	GCTTGTATTT	GGGATTGTCT	ATAGCATTGG	TCGTTTACTT	GGTCTTCTCT	TACACTTGAT	13020
	TCCTAGCAAA	AAACTGGGTG	GTAAGTTGTT	CCAAGTTTCA	GCAGGTATCT	TGTCCATGTT	13080
	GGTGACCTTA	TTTGTCTTGC	AAATGGCCTT	GACAATCTTG	GCGACCATCC	CCATGGCAGT	13140
	TATACAAAAT	CCTCTTGAAA	AGAGTATCGT	CGCAAAACAC	ATCATCCAGA	GCATACCGGT	13200
	AACAACCAGT	TGGCTCAAAC	AAATCTGGGT	GACAAATTTA	ATCGGATAAA	AAGGGCAGGA	13260
	GTTTTCCTAG	CCCTTTGTTT	ACAGATTTGA	CTCGAATCTA	TCAGAATGTA	AAAAGCTACC	13320
	ACACCTAGAC	ATTCAAAGAC	AAGGAAATAA	AGATGAATAA	GAAAATATTA	GAAACATTAG	13380
	AGTTCGATAA	GGTCAAGGCC	TTGTTTGAGC	CTCATTTGTT	GACCGAGCAG	GGCTTGGAGC	13440
	AATTGAGACA	ACTGGCTCCG	ACTGCCAAAG	CAGATAAAAT	CAAACAGGCT	TTTGCTGAGA	13500
	TGAAGGAAAT	GCAGGCTCTT	TTCGTCGAGC	AACCGCATTT	TACTATTCTC	TCAACTAAGG	13560
	AAATTGCAGG	AGTCTGCAAG	AGGTTGGAGA	TGGGAGCGGA	TCTCAATATC	GAGGAGTTCC	13620
	TACTCTTGAA	ACGCGTGCTT	CTTGCCAGCC	GAGAACTTCA	AAATTTTTAC	ACCAATCTGG	13680
	AAAATGTCAG	CTTGGAAGAA	TTAGCCCTTT	GGTTTGAGAA	ATTACATGAT	TTTCCGCAAT	13740
	TACAAGGAAA	TCTTCAGGCC	TTTAATGATG	CGGGTTTCAT	TGAAAATTTT	GCCAGTGAAG	13800
	AATTGGCGCG	AATCCGTCGA	AAAATACATG	ATAGCGAGAG	TCAGGTACGC	GATGTTTTAC	13860
	AAGACTTGCT	CAAGCAAAAA	GCGCAGCTGT	TGACGGAAGG	AATTGTTGCT	AGCAGAAATG	13920

GCCC	STCAGGT	TTTACCAGTC	AAAAACACCT	ACCGCAATAA	GATTGCAGGT	GTCGTTCATG	13980
ATAT	TTCTGC	TAGTGGAAAC	ACCGTCTATA	TCGAACCCCG	TGAGGTAGTC	AAACTGAGCG	14040
AAG <i>I</i>	<b>AATTGC</b>	TAGTCTGCGA	GCAGATGAGC	GCTATGAAAT	GCTTCGCATT	CTCCAAGAAA	14100
TTTC	CTGAGCG	TGTCCGCCCT	CATGCGGCTG	AGATTGCTAA	TGACGCTTGG	ATTATCGGTC	14160
ATCI	'GGACTT	GATTCGTGCC	AAGGTTCGAT	TTATCCAAGA	AAGACAAGCA	GTCGTGCCTC	14220
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CAGO	GATTGCC	GATTTTAGCA	GACAAGGGAA	GTCGTGTTGG	TATTTTGAA	GAAATCTTTG	14460
CTGA	ATATTGG	AGATGAGCAG	TCTATTGAGC	AGAGCTTGTC	TACCTTCTCT	AGTCATATGA	14520
CCAA	ATATCGT	GGATATTCTT	GGCAAGGTCA	ACCAACATTC	ACTCTTACTT	TTGGATGAGT	14580
TGGG	GGCTGG	TACTGATCCC	CAAGAGGGAG	CAGCCCTTGC	CATGGCTATT	CTGGAGGACC	14640
TTC	CCTGCG	TCAAATCAAG	ACCATGGCGA	CGACCCACTA	TCCAGAACTC	AAGGCCTACG	14700
GTAI	TGAGAC	AGCCTTTGTG	CAAAATGCCA	GTATGGAGTT	TGATACTGCA	ACTCTTCGCC	14760
CGAC	CTATCG	CTTTATGCAG	GGTGTTCCTG	GCCGAAGTAA	TGCCTTTGAA	ATTGCCAAAC	14820
GTCI	PAGGCCT	ATCTGAAGTT	ATCGTAGGAG	ATGCCAGTCA	GCAGATCGAT	CAGGACAATG	14880
ACGT	CAATCG	TATCATTGAG	CAATTAGAAG	AGCAGACGCT	GGAAAGCCGC	AAACGTTTGG	14940
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ACAA	CGAGCT	TAATCGTGAA	AAGGAAACCG	AGCTTAACAA	GGCGCGTGAA	CAGGCTGCTG	15060
AGAT	TGTGGA	TATGGCCCTA	AGTGAAAGTG	ACCAGATTCT	CAAAAATCTC	CACAGTAAAT	15120
CCCA	ACTCAA	GCCCCACGAA	ATCATTGAAG	CCAAGGCCAA	GTTGAAAAAA	TTGGCTCCTG	15180
AAAA	agtgga	CTTGTCTAAA	AATAAGGTCC	TTCAAAAGGC	CAAGAAAAA	CGAGCTCCAA	15240
aggi	GGGAGA	TGATATCGTG	GTTCTCAGTT	ATGGTCAGCG	TGGTACCTTG	ACCAGTCAAC	15300
TCAA	GGACGG	TCGCTGGGAA	GCCCAAGTTG	GCTTGATTAA	GATGACCTTG	GAAGAGAAAG	15360
agti	TGATCT	TGTTCAAGCC	CAGCAAGAAA	AACCAGTCAA	GAAGAAACAG	GTCAATGTTG	15420
TGAA	ACGAAC	TTCTGGGCGA	GGACCTCAAG	CTAGACTGGA	TCTTCGAGGC	AAGCGCTATG	15480
AAGA	AGCCAT	GAATGAGCTA	GATACCTTCA	TCGACCAAGC	CTTGCTTAAC	AATATGGCTC	15540
aagi	TGATAT	CATCCATGGT	ATCGGAACAG	GAGTCATCCG	TGAAGGAGTT	ACCAAATACT	15600
TGCA	AAGAAA	CAAACATGTC	AAGAGTTTCG	GCTATGCCCC	ACAAAATGCT.	GGAGGCAGTG	15660

			660			
TGCGACTAT	TGTCACTTTT	AAAGGATAGC		ACTTTATAAA	GTAAAAACTG	15720
PTGAACTAAT	ТТТТАСТААТ	AAACACATTG	ACAAAAGCCA	ACATTTTTTG	TAAAATTAGA	15780
<b>ЧТСААТТААА</b>	TACCAACACC	GAATGAAGTT	TAATAGAAGT	GGGGAATCGT	TTGATTTTCC	15840
ATGACTGTAA	ATGGACGGAA	CTCTGGAGAG	ACCGTAAAGG	CACCGAAGGG	CAAGGCAGGC	15900
ACTGCTCAA	ACTCTCAGGT	AAAAGGACAG	AGCTAGGATA	GACCGCTTTT	TAGCATTTAT	15960
TAAGCATTC	CAGAGTACAT	GTATCTTGCA	TGTGCTCTTT	CTTTTGGGGT	TGAAACGATA	16020
GAGAAGGAA	ATGTTAGAAT	TGCTTAAATC	AATCGATGCT	TTTGCTTGGG	GACCGCCCCT	16080
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PTTGCGTCTA	CCCAAGGCCT	TTCAGCTTAT	TTTTATCCAG	GATAAGGGAC	ATGGTGATGT	16200
ATCCAGTTTT	GCAGCTCTGT	GTACAGCCTT	GGCATCAACT	GTTGGAACAG	GAAATATCAT	16260
AGGAGTTGCG	ACGGCTATCA	AGGTTGGTGG	ACCAGGAGCT	CTATTTTGGA	TGTGGATGGC	16320
GCTTTCTTT	GGAATGGCTA	CCAAGTATGC	GGAAGGACTC	TTGGCCATCA	AATACCGCAC	16380
AAGGACGAC	CATGGTGCAG	TAGCGGGAGG	TCCCATGCAT	TATATCCTTC	TAGGGATGGG	16440
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ATTTCGCCA	GCCATCACAG	CTCTCGTCTT	GTCTGTCTTT	GTAGCGATTG	CAGTCTTTGG	16620
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ATCTTAGGA	ACTCTTACAG	TTATTTTCTT	TAATATCGGA	AAAATCCCTG	GCACAATCGC	16740
TTAGTCTTT	ACCTCAGCTT	TTAGTCCCCT	TGCTGCGGTA	GGTGGATTTG	CTGGTGCTAG	16800
GTTCGGATG	GCTATTCAAA	ATGGTGTGGC	GCGTGGTGTG	TTCTCAAACG	AATCTGGTCT	16860
GGTTCTGCT	CCTATTGCAG	CTGCAGCTGC	CAAGACAAAT	GAACCAGTAG	AGCAAGGTTT	16920
ATTTCCATG	ACAGGAACCT	TTATTGATAC	CCTCATCATT	TGTACTCTAA	CTGGTTTGAC	16980
ATCTTGGTA	ACTGG					16995

# (2) INFORMATION FOR SEQ ID NO: 83:

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 28473 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double

  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 83:

ACTAAGCGCT	ТТААТАААСА	GTTAGATAAA	ATTCAAGTTT	CGTTGATTCG	TCAGTTTGAC	120
CAGGCTATTT	CGGAGATTCC	TGGGGTCTTG	CGTTTGACCT	TGGGGGAACC	TGATTTTACA	180
ACGCCAGACC	ATGTCAAGGA	GGCGGGCAAG	CGAGCGATTG	ATCAGAACCA	ATCCTACTAT	240
ACAGGGATGA	GTGGTCTGCT	GACTCTACGT	CAGGCAGCCA	GTGACTTTGT	TAAGGAAAAG	300
TACCAACTGG	ACTATGCTCC	TGAAAATGAA	ATCTTGGTTA	CAATTGGGGC	GACAGAGGCT	360
TTATCTGCGA	CTTTGACGGC	TATTTTGGAA	GAGGGAGACA	AGGTACTTTT	GCCAGCTCCT	420
GCTTATCCAG	GCTATGAACC	GATTGTTAAC	TTAGTTGGGG	CAGAAATTGT	TGAGATTGAT	480
ACGACTGAAA	ATGGTTTTGT	CTTGACTCCT	GAGATGTTGG	AGAAGGCCAT	TTTGGAGCAG	540
GGTGATAAGC	TCAAGGCGGT	TATTCTCAAC	TATCCAGCCA	ATCCGACAGG	AATTACCTAC	600
AGTCGAGAGC	AGTTAGAGGC	CTTGGCAGCT	GTTTTACGCA	AGTACGAAAT	TTTTGTTGTC	660
TGTGATGAGG	TTTACTCAGA	ATTGACCTAC	ACAGGCGAAG	CCATGTGTCT	CTAGGAACGA	720
TGTTGAGAGA	CCAGGCTATT	ATTATCAATG	GTTTGTCTAA	ATCGCATGCC	ATGACAGGTT	780
GCCTTTGGG	GCTGATTTTC	GCTCCTGĆGA	CCTTCACAGC	CCAGTTAATC	AAGAGTCACC	840
AGTACTTGGT	CACTGCCGCA	AATACCATGG	CGCAACATGC	TGCGGTAGAA	GCCTTGACGG	900
CTGGTAAAAA	CGATGCGGAC	CCATGAAGAA	GGAATATATC	CAACGTCGGG	ACTATATCAT	960
CGAAAAAATG	ACTGCTCTTG	GTTTTGAGAT	TATCAAACCA	GACGGTGCCT	TCTATATTTT	1020
TGCTAAAATT	CCAGCGGGCT	ACAATCAAGA	CTCCTTTGCT	TTTCTGAAGG	ATTTTGCTCA	1080
GAAGAAGGCC	GTTGCCTTTA	TCCCTGGTGC	AGCCTTTGGA	CGTTACGGGG	AAGGCTACGT	1140
CCGCCTATCT	TATGCAGCCA	GCATGGAGAC	TATCAAAGAA	GCCATGAAAC	GACTTGAGGA	1200
GTACATGAGA	GAAGCATGAT	TCAGTCTATC	ACGAGTCAAG	GCTTGGTGCT	TTACAATCGC	1260
AATTTTCGTG	AGGATGACAA	GCTCGTCAAA	ATTTTTACAG	AGCAGGTTGG	CAAACGCATG	1320
TTTTTTGTCA	AACACGCTGG	TCAGTCTAAG	CTGGCGCCTG	TTATTCAGCC	CTTGGTGCTG	1380
GCACGATTTC	TCTTGCGAAT	CAATGATGAC	GGACTCAGTT	ACATCGAAGA	CTATCATGAG	1440
GTCATGACTT	TTCCCAAGAT	TAATAGTGAC	CTCTTTGTCA	TGGCCTATGC	GACCTATGTG	1500
GCAGCTCTTG	CAGATGCTAG	TTTGCAGGAC	AATCAGCAGG	ATGCTCCCTT	GTTTGCTTTT	1560
TTGCAAAAGA	CTTTGGAGTT	GATGGAAGCA	GGCTTGGATT	ATCAGGTTTT	GACCAATATT	1620
TTTGAAATTC	AAATTTTGAC	TCGATTTGGA	ATCAGCCTCA	ATTTTAATGA	GTGTGTCTTC	1680
TGCCATCGGG	TTGGTCAGGC	TTTTGACTTT	TCTTTCAAAT	ATGGAGCCTG	CCTCTGTCCA	1740
GAGCATTATC	ATGAGGATAA	GAGACGTTGT	CATCTCAATC	CCAATATCCC	CTATCTGCTC	1800

			662			
AATCAATTTC	AAGCTATTGA	TTTTGAGACT	TTGGAGACCA	TTTCGCTCAA	GCCTGGAATC	186
AAGCAAGAGC	TACGCCAATT	TATGGATCAA	TTATATGAAG	AGTACGTTGG	GATTCACCTA	192
AAATCAAAGA	AATTTATTGA	TTCCCTAGCA	GACTGGGGAC	AATTACTAAA	AGAGGAAAAG	198
AAATGAAAAA	AATCGCAGTA	GATGCCATGG	GGGGCGATTA	CGCACCTCAG	GCCATTGTTG	204
AGGGTGTCAA	TCAAGCCCTA	TCTGACTTTT	CAGATATCGA	GGTTCAACTT	TACGGAGATG	210
AAGCTAAAAT	CAAGCAATAT	CTGACAGCGA	CAGAGCGCGT	CAGCATTATC	CATACGGATG	216
AGAAGATTGA	TTCGGATGAT	GAACCTACGA	GAGCTATTCG	GAATAAGAAA	AATGCCAGTA	2220
TGGTATTGGC	AGCCAAGGCT	GTCAAAGATG	GTGAAGCAGA	CGCTGTCCTT	TCGGCTGGGA	228
ATACAGGTGC	CTTGTTGGCA	GCAGGATTCT	TCATCGTGGG	TCGTATCAAG	AATATCGACC	2340
GTCCTGGACT	CATGTCTACC	TTGCCTACCG	TTGATGGAAA	AGGTTTTGAC	ATGCTAGACC	2400
TTGGTGCCAA	TGCAGAAAAT	ACAGCCCAGC	ACCTCCATCA	ATATGCGGTT	CTAGGTTCCT	2460
TCTATGCTAA	AAATGTCCGT	GGCATTGCGC	AACCACGCGT	TGGTTTGCTC	AACAACGGAA	2520
CAGAGAGTAG	CAAGGGCGAC	CCGCTTCGTA	AGGAAACTTA	TGAATTACTG	GCGGCTGATG	2580
AAAGTTTGAA	CTTTATCGGA	AACGTGGAAG	CGCGTGATTT	GATGAATGGC	GTTGCAGATG	2640
TTGTTGTGGC	AGATGGTTTC	ACGGGAAACG	CTGTGCTCAA	ATCCATCGAA	GGGACAGCTA	2700
rgggaatcat	GGGCTTGCTC	AAGACAGCTA	TTACAGGTGG	TGGTCTTCGA	GCGAAACTAG	2760
CTCCCTCCT	TCTCAAGGAC	AGCCTCAGTG	GTTTGAAAAA	ACAGCTCAAT	TATTCAGATG	2820
PTGGTGGAGC	GGTCTTGTTT	GGTGTTAAGG	CACCTGTTGT	CAAGACTCAT	GGCTCAAGCG	2880
ATGCCAAGGC	TGTTTATAGT	ACGATTCGTC	AGATCCGTAC	CATGCTAGAA	ACAGACGTGG	2940
PTGCCCAGAC	TGCGCGTGAA	TTTTCAGGAG	AATAAAAGAG	ATGACAGAAA	AAGAAATTTT	3000
<b>FGACCGTATT</b>	GTGACCATTA	TCCAAGAGCG	ACAGGGAGAG	GACTTTGTCG	TGACAGAATC	3060
CTTGAGTCTG	AAAGACGATT	TGGATGCGGA	TTCTGTTGAC	TTGATGGAGT	TTATCTTGAC	3120
<b>PCTGGAA</b> GAT	Gaatttagta	TCGAAATCAG	CGATGAAGAA	ATTGACCAAC	TCCAAAACG T	3180
AGGAGATGTG	GTTAAAATCA	TTCAAGGAAA	ATAGCAATCG	GAGTTCCAAG	TCAACGGAAG	3240
PAGATGGTTT	TTAGAAATGA	GAAATATCGG	ACAAGCTGGT	AAAATCTTGG	CTGACAGTGG	3300
TTATCAAGGG	CTCATGAAGA	TATATCCTCA	AGCACAAACT	CCACGTAAAT	CCAGCAAACT	3360
CAAGCCGCTA	ACAGTTGAAG	ATAAAGCCTG	TAATCATGCG	CTATCTAAGG	AGATAAGCAA	3420
GGTTGAGAAT	ATCTTTGCCA	AAGTAAAAAC	GTTTAAAATG	TTTTCAACAA	CCTATCGAAA	3480
<b>TCATCGTAAA</b>	CGCTTCGGAT	TACGAATGAA	TTTGATTGCT	GGTATTATCA	ATCATGAACT	3540
AGGATTCTAG	TTTTGCAGGA	AGTCTAATAG	TAAAAAAGTG	attagaaaac	ATCTTTTTTA	3600

AAAATAGAG/	A TGATTTTGAA	ACAAAAAAGC	TAATTCAAGA	CGTTTCGATG	CCAATTCAAG	3660
<b>ATTT</b> GGATG <i>I</i>	AATTAAAAAA A	TAGATACTGT	TATACTAAAC	TTGTCAAGTT	TGTAACAAGA	3720
CAAATATTA	AAAAAAAT	GAGGTATTCG	TTATGAATAC	AAAAACGATG	TCACAATTTG	3780
<b>AA</b> ATTATGG/	A TACTGAGATG	CTTGCTTGCG	TTGAAGGTGG	CGGATGCAAT	TGGGGAGATT	3840
TTGCCAAAG	C AGGTGTTGGA	GGAGGAGCAG	CACGAGGTCT	TCAGCTAGGA	АТТААААСАА	3900
GAACATGGC/	A AGGTGCAGCA	ACTGGTGCTG	TGGGAGGAGC	TATACTTGGA	GGTGTGGCCT	3960
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rggtatatt1	GGTCCTTATA	TGGATGATTT	AATTAGAAAA	AAATTTTTAA	AGTCTTCGGA	4080
GAAGAAAAC	GAAAAATCTG	ТТААААААТА	АТСААААСТА	TAAATGATGA	ATCTGAATCA	4140
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rgaatcgta <i>i</i>	TTTAGAACGG	TGTTATCTAT	TCTGACTAGG	AATAGATCAT	ACCAGAGGTA	4260
GCTTAGAAA1	AGCAGAGACA	TTAGAAATTG	AAGTAATAAA	TAGGATGTCG	TAAGTGTTAC	4320
PATCAATGAT	TTATTTGTTT	CAAGCTTGCC	TAGGGTGACA	GTAAAAAATC	AATTTCCTTT	4380
CAATAGCATA	\ TTTTTAGTGG	GCAGGACTCT	TGTTCTGCCT	ATTTTTTAT	CCAAAAAGTG	4440
CAGTTGGGAC	GGAGATAGGC	TCATTTGGGA	AGGAAGTCCA	GTTTTTGTTT	AGTGATTGGG	4500
Taagatag1	TGTTATCAGA	TGAGTTAATA	CTCTTCGAAA	ATCAAATTCA	AACCACGTCA	4560
ACGTCGCCTI	GCCGTATATA	TGTGACTGAC	TTCGTCAGTC	СТАТСТАСАА	CCTCAAAACA	4620
GTGTTTTGAG	CAGCCTACGG	CTAGTTTCCT	AGTTTGCTCT	TTGATTTTCA	TTGAGTATTA	4680
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GGCTCACTI	GCGAGAATTG	GCTAAGACGA	CCATGGATGG	GACGACGGCT	TTGGGCTTGG	4860
CAAGGTGGC	AGAGGAGATT	GGTTTTGAGA	CGCGAGCCAT	TAAGGCAGAT	ATGACGCTTT	4920
TGACTTGCC	GGATTTAACT	TTTCCTTTTG	TTGCCCATGT	GCTTAAGGAA	GGGAAATTGC	4980
CCACTACTA	TGTGGTGACT	GGGCAGGATA	AGGATAGCAT	TCATATTGCC	GATCCAGATC	5040
CGGGGTGAA	GTTGACTAAA	CTGCCACGTG	AGCGTTTTGA	GGAAGAATGG	ACAGGAGTGA	5100
TCTTTTTAT	GGCACCTAGT	CCAGACTATA	AGCCTCATAA	GGAACAAAA	AATGGTCTGC	5160
CTCTTTTAT	CCCTATATTA	GTGAAGCAGC	GTGGCTTGAT	TGCCAATATC	GTTTTGGCAA	5220
ACTCTTGGT	AACCGTGATT	AACATTGTGG	GTTCTTATTA	TCTGCAGTCT	ATCATTGATA	5280
CTATGTGCC	AGATCAGATG	CGTTCGACAC	TAGGGATTAT	TTCTATTGGG	CTAGTCATĊG	5340

			664			
TCTACATCTT	CCAGCAAATC	TTGTCTTACG	CTCAGGAGTA	TCTCTTGCTT	GTTTTGGGGC	5400
AACGCTTGTC	GATTGACGTG	ATTTTGTCCT	ATATCAAGCA	TGTTTTTCAC	CTCCCTATGT	5460
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TCATCGATGC	GCTGGCTTCG	ACCATCCTTT	CGATTTTCCT	AGATGTGTCA	ACGGTTGTCA	5580
TTATTTCCCT	TGTTCTATTT	TCACAAAATA	CCAATCTCTT	TTTCATGACT	TTATTGGCGC	5640
ттсстатста	CACAGTGATT	ATCTTTGCCT	TTATGAAGCC	GTTTGAAAAG	ATGAATCGGG	5700
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AGACTATCAA	GTCCTTGACC	AGTGAAAGTC	AGCGTTACCA	AAAAATTGAC	AAGGAATTTG	5820
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AAAAGGTTGC	CCATCTCTTG	CTTAATGTCG	GCATTCTCTG	GATGGGGGCT	GTTCTGGTCA	5940
TGGATGGCAA	GATGAGTTTG	GGGCAGTTGA	TTACCTATAA	TACCTTGCTG	GTTTACTTTA	6000
CTAATCCTTT	GGAAAATATC	ATCAATCTGC	AAACCAAGCT	TCAGACAGCG	CAGGTTGCCA	6060
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AGGATTTGAG	CTTGATGAAG	GGAGATATGA	CCTTCAAGCA	GGTTCATTAC	AAGTATGGCT	6180
ATGGTCGAGA	TGTCTTATCG	GATATCAATT	TAACCGTTCC	CCAAGGGTCT	AAGGTGGCTT	6240
TTGTGGGGAT	TTCAGGGTCA	GGTAAGACGA	CTTTGGCCAA	GATGATGGTT	AATTTTTACG	6300
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CCCTGCGCCA	GTACATCAAC	TATCTGTCTC	AACAGCCCTA	TGTCTTTAAC	GGAACGATTT	6420
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TCGAATTGGC	AGAGATTCGA	GAGGATATCG	AGCGCATGCC	ACTGAATTAC	CAGACAGAAT	6540
TGACTTCGGA	TGGGGCAGGG	ATTTCAGGTG	GTCAACGTCA	GAGAATCGCT	TTGGCGCGTG	6600
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TGACAGAGAA	GCGGATTGTC	GATAATCTCA	TTGCTTTGGA	CAAGACCTTG	ATTTTCATTG	6720
CTCACCGCTT	GACTATTGCT	GAGCGGACAG	AGAAGGTAGT	TGTCTTGGAT	CAGGGCAAGA	6780
TTGTCGAAGA	AGGAAAGCAT	GCTGATTTGC	TTGCACAGGG	TGGCTTTTAC	GCCCATTTGG	6840
TCAATAGCTA	GAAAGAGGAG	AGGATGAAAC	CAGAATTTTT	AGAAAGTGCG	GAGTTTTATA	6900
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TCGAACCTAG	TCGTATCCTT	GCAAATATCC	AGTCAACTAG	CAACAATCGT	ATTCTTGTCA	7080
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AGGATAAGTT	TGGCTACCAA	GCCACCTTTC	GCGACTACAT	CAGTCAAGCA	GGCAGTCTTA	7320
GGGCTAGTAC	ATCGCAACAA	AATGAGACCA	TCGCGTCCCA	GAATGCAGÇA	GCTAGCCAAA	7380
CCCAAGCCGA	AATCGGCAAC	CTCATCAGTC	AAAĆAGAGGC	TAAAATTCGC	GATTACCAGA	7440
CAGCTAAGTC	AGCTATTGAA	ACAGGTGCTT	CCTTGGCCGG	TCAGAATCTA	GCCTACTCTC	7500
TTTACCAGTC	CTACAAGTCT	CAGGGCGAGG	AAAĄTÇCCCA	AACTAAGGTT	CAGGCAGTTG	7560
CACAGGTTGA	AGCACAGATT	TCTCAGTTAG	AATCTAGTCT	TGCTACTTAC	CGTGTCCAGT	7620
ATGCAGGTTC	AGGTACCCAG	CAAGCCTATG	CGTCAGGGTT	AAGCAGTCAA	TTGGAATCCC	7680
TTAAATCCCA	ACACTTGGCA	AAGGTTGGTC	AGGAATTGAC	CCTTCTAGCC	CAGAAAATTT	7740
TGGAGGCAGA	GTCAGGTAAG	AAGGTACAGG	GAAATCTTTT	AGACAAGGGG	AAAGTTACGG	7800
CGAGTGAGGA	TGGGGTGCTT	CATCTTAATC	CTGAGACCAG	TGATTCTAGC	ATGGTTGCAG	7860
AAGGTGCCCT	ACTAGCCCAA	CTTTATCCAT	CTTTGGAAAG	AGAAGGGAAA	GCCAAACTCA	7920
CAGCTTATCT	AAGTTCAAAA	TATGTAGCAA	GAATCAAGGT	CGGTGATTCT	GTTCGCTATA	7980
CTACGACTCA	TGATGCCGGG	AATCAACTTT	TCCTAGATTC	ТАСТАТТАСА	AGTATTGATG	8040
CGACAGCTAC	TAAGACTGAG	AAAGGGAATT	TCTTTAAAAT	CGAGGCGGAG	ACTAATCTAA	8100
CTTCGGAGCA	GGCTGAAAAA	CTTAGGTACG	GGGTGGAAGG	CCGCTTGCAG	ATGATTACGG	8160
GCAAGAAAAG	TTACCTACGT	TATTATTTGG	ATCAATTTTT	GAACAAAGAG	TAATGTTCGT	8220
GTTTTTAGAG	TTAAATAATT	TTTAAACTGT	GAGAAAGATT	CTTCTTGCAG	TTTTTTTTTT	8280
ACAATTTTTG	AAAAACATCT	ACTATTTATT	CGGTTAAATT	CTTGTGTTTT	TTGGTTTTTT	8340
GTGGTAAAAT	GTGCTCAAGT	AATACGAAAG	GCGAACTTTA	AAATGTCAAA	ACAATTGATC	8400
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TACAAGGACC	AGGCGACTGC	TTTCAACGGT	GTCAAGAAGG	AGCAGATTGC	AGGTAAGGGA	8520
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ACTCACTTTG	TGGAGAAACT	TTCAGACACG	GAACAACTCA	ataaaaaggt	TAAGATTATT	8640
CCTTTGGAAG	TCGTGCTCCG	CAACTATACT	GCTGGTTCCT	TTTCAAAACG	TTTTGGTGTG	8700
GATGAGGGAA	TCGCCTTGGA	GACTCCGATT	GTCGAATTTT	АСТАСАААА	TGATGATTTG	8760
GATGATCCAT	TTATCAATGA	TGAGCATGTG	AAATTCCTAC	AGATTGCGGG	TGACCAGCAG	8820
ATTGCCTACT	TGAAGGAAGA	AACGCGTCGT	ATCAATGAAC	TATTGAAAGT	CTGGTTTGCT	8880

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GAGATTGGGC	TTAAATTGAT	TGACTTTAAG	CTAGAGTTCG	GTTTTGACAA	GGATGGCAAG	8940
ATTATCTTGG	CAGACGAATT	TTCACCAGAT	AACTGCCGCT	TGTGGGACGC	TGATGGCAAC	9000
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TGAACTAACA	GATGTTTACG	AAATTGTCTG	GGAAAAGTTG	CAGGGTTTAA	AATAACAACC	9240
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GTAACCGACC	ATGTTTTAGA	TGAAGTATCT	GTGCAGGCGG	ATCTTGCTAA	CTATGCTTTC	9540
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CGTGCTAATG	GACGATTGGA	TGATATGGAA	GTCTCTGACG	AAATCAATGC	CTGCTCAGTT	10200
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ACCCACAACC	ATCCAACAGA	AATTGAGCCA	TTTGGTGGAG	CGGCTACCTG	TATTGGTGGA	10320
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GCTGGTGATA	TTACAGCACC	GATTTCGGAA	ACTCGCGCTG	GGAAATTGCC	ACAACAAGTC	10440
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GCCATCTCTG	AATCACAAGA	ACGGATGGCG	CTCCTCCTTC	GTCCTGAAGA	TGTGGATGCC	10980
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TCTGACCTCA	ACCATGCAAG	TCAAAAAGGA	TTACAGACTA	TCTTTGACTG	CTCTGTTGGA	11280
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CTAGGTTCTA	TTGAAGCACA	AATTCAGCTT	GGCTTGCCAT	CTATCGGTGG	TAAGGACTCC	11640
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TACATCCCAG	GTCAAGCCCT	CTCTGCAGAG	ATTGATTTTG	ACTTGATTAA	GAAAAATTTT	11820
GCTCAGTTTG	AAGCCATCCA	AGCTGACCAT	AAAGTGACAT	CTGCATCAGC	TGTCAAATAC	11880
GGTGGTGTAG	TTGAAAGTTT	GGCTCTTGCT	ACCTTTGGAA	ACTATATTGG	TGCAGAGGTG	11940
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GAAGTTTACC	CAACAGAATT	TACCCAAGCG	AAAGAACTAG	AAGAAGTACC	AGCTGTGGCA	12180
TCAGATGTTG	TGATTAAAGC	CAAAGAAAAG	GTTGAAAAAC	CTGTGGTTTA	CATCCCAGTC	12240
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668 GATGAACCAG ATGGTTCAGC TAAGTTTATC GTCAATATCC TGCTTAATGA AAAAGTGCGT 12480 GTGGCTATTG ATAGCTTTAT CGCCCGTGGT GGTTTGATTA TCGGTATTTG TAATGGATTC 12540 CAAGCCTTAG TCAAATCGGG TCTCCTACCC TACGGAAACT TTGAAGCTGC TAACAGTACT 12600 AGCCCAACCC TCTTCTACAA TGATGCCAAC CAACACGTGG CCAAGATGGT GGAAACTCGC 12660 ATTGCCAATA CCAACTCACC ATGGTTGGTT GGTGTGCAAG TGGGCGATAT CCACGCTATT 12720 CCTGTTTCGC ACGGTGAAGG GAAGTTTGTC GTGACGGCTG AGGAATTTGC AGAGCTCCGT 12780 GACAATGGAC AAATTTTCAG CCAATACGTT GACTTTAACG GTAAACCAAG TATGGATTCT 12840 AAGTACAATC CGAATGGTTC TGTCCATGCC ATCGAAGGAA TTACCAGCAA GAATGGTCAA 12900 ATCATCGGTA AGATGGGCCA CTCAGAACGT TATGAGGATG GTCTTTTCCA AAATATCCCA 12960 GGCAATAAAG ACCAACACCT GTTCGCATCA GCGGTTAAAC ATTTCACTGG AAAATAAGAC 13020 TTACAGATTT TCTAATAGAT AGTATCAGTA ATGTAAAAGT CATGTAAATC TAGCTCTTGA 13080 TGATTACAAA TGAAAATTAG GTATAAAAAA TGACATACGA AGTAAAATCT CTTAATGAAG 13140 AATGTGGTGT TTTCGGTATT TGGGGACATC CAGATGCTGC TAAGTTGACC TATTTTGGAC 13200 TCCACAGTCT TCAACACCGT GGTCAGGAGG GGGCAGGAAT CCTCTCCAAT GATCAAGGAC 13260 AACTGAAGCG CCATCGTGAC ATGGGGCTTT TATCAGAAGT TTTCAGAAAT CCAGCTAATT 13320 TGGATAAATT GACAGGAGCT GGTGCGATTG GGCATGTGCG TTATGCGACT GCTGGCGAAG 13380 13440 CTCATAATGG AAATCTGACC AATGCAGCCT CTCTCAAGAA AGAACTGGAA CAAAGAGGAG 13500 CAATTTTCAG CGCGACTTCG GACTCTGAAA TCTTGGCTCA CCTCATTCGT CGCAGTCATA 13560 ATCCTAGCCT GATGGGCAAA ATCAAGGAAG CGCTCAGCCT TGTCAAAGGT GGTTTTGCCT 13620 ATATCTTGCT GTTTGAGGAC AAGTTGATTG CGGCTCTTGA CCCAAATGGA TTCCGACCGC 13680 TTTCGATTGG TAAAATGGCT AATGGAGCAG TTGTTGTATC TTCTGAAACC TGTGCTTTTG 13740 AGGTCATTGG TGCCGAGTGG ATTCGTGATT TGAAGCCAGG TGAGATTGTG ATCATTGATG 13800 ACGAGGCAT TCAGTATGAC AGCTATACAG ATGATACCCA GTTGGCGGTT TGTTCTATGG 13860 AGTATATCTA CTTTGCTCGC CCTGATTCTA ATATCCACGG TGTCAATGTC CATACGGCAC 13920 GTAAGAGAAT GGGAGCGCAA TTGGCGCGAG AATTTAAGCA TGAGGCAGAT ATTGTAGTTG 13980 GTGTGCCCAA TTCTTCCCTA AGCGCGGCTA TGGGATTTGC GGAAGAATCA GGCTTACCAA 14040 ATGAAATGGG TCTGATCAAA AACCAATACA CCCAGCGAAC TTTTATCCAA CCGACTCAAG 14100 AATTGCGGGA GCAAGGAGTG CGGATGAAAC TGTCTGCTGT TTCGGGTGTT GTCAAAGGCA 14160 AACGTGTGGT CATGGTGGAT GATTCCATTG TACGTGGAAC AACCTCTCGT CGTATCCTTC 14220

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GATGGTGAAT	AACGTGCAGA	TGGAGTGTCA	GCCCAAGCAG	CTACCATACC	ACCGATGATT	25920
GGGATATCAG	CTCCTTCTGT	TTTTGGTACA	GAAGTGATTG	GTGTGTTTTT	AATACCATTG	25980
AGCCCCTGAT	CGAGATTGTA	CCAGCCTTGG	CCATCAGCGT	TTCGTCCAAG	AACGTAGTAC	26040
CAAGCATCAT	TGGTATTAAG	GATTTGGTGA	CCTTTTTCAG	CTAGTAGTTT	AGAAGAAGCG	26100
ACATCGTAGC	CTCCCCAACC	ACCAGTCCAC	ATAGAAACGA	TGATGTCTTT	GTCAAAACTA	26160
CCAAAGCTTG	TGTCGCTATT	GTAGTAGATA	CCGTCGTTAA	AAGCCATTGG	TTTGAGACCG	26220
TGCGATTTTA	CAATACGAGC	GAGGTCATTG	GCGTAGGCAA	TAAATTTTTC	ATAGCCTTTT	26280
ACAGGGTAGC	CTTCGTTTGG	ATAGTATTTA	TCAGCTTGAA	GCACACTCCA	ACCTTTAGCA	26340
TCTGTCGCAT	CATTGGCATA	TTCATCAAGT	CCGATGTTGA	AGATTTCAGT	CTTTTTCGCG	26400
AAATAAGCAG	CATACTTGTC	GATAAGGGCT	TTTGTAAAAG	CGACAGCTTG	TTCGTTGTCA	26460
AGATCGACAG	TACGGGCTGA	TTTCTTCCCA	AAATAGCTAA	AGTTAGGGTT	TTGGATTCCC	26520
AATTCTTTCA	TGGCATTGAG	AATCGCATCC	ATGTGTCCAG	GACTATTTAC	TGTCGGAATG	26580

AGACCGATAC CTTTATCTTT GGCATAGTTA ATCAGATCTG TCATTTGACT TTCTGTTAAG 26640 TGATTGCCGT TTGGATCGTT GTAATAATCA TTTGTACCTT TTTCAATGGC GCGTTTGACA 26700 TCGTCACTGG CATAGGTCTT GCCGTTAGCT GTGATGCTCA TATCGTCCAA CATGAAACGG 26760 AGTCCATCAT TTCCGACTAA TAGGTGTAAA TCAGTGTAGC CATAATGTTT CGCTTTATCG 26820 ATGATTTCCT TGAGCTGTTC TGGTGAGAAA TATTTACGTC CAGCATCAAT AGAAACAATT 26880 TTCTTTTCG CTAGTTTTC ATTACAGTT GCAGCACGTT CCTTTCCTGC CTCTGTTGCC 26940 GGTTTGTCAG CCTCTGCTTT CGCTTCATCT TTTTTAGCTG GTTTATCCTT GTCAGTCTTG 27000 TCTGTATTTG ACTCTTTAGA ATCAACCTCT TTCGCTTCTT CCTTTTTAGG GCTAGCTTCT 27060 TCTGCCTTTT TATTAGCAGT TTCTTTTCA GCAGAAGTTG GAGTTACCAC TTCTGCTTTA 27120 TCACTAGGAG TTGAACTAAC TTCCTCTTGT GGTTTTTCTT CTGTTTTTGG AAGACTAGCT 27180 ACCTTATCAG TAGCTGGAGT TTCTGTTTCT ACAGTTTTTG GAGCTTCTGG TTGAAGCACT 27240 GCTTTAGGTG TTTCCTCAGT CCGATTTTCG GATGATTGAG GGGAATCAGA AACCGTATGG 27300 ATGGTCGGTT GGTTTTCTGT AGTAGTAGGA GTAACTCCAT CGGCTGCAAC AGTCTGTGCT 27360 TGGAAGGCAA ATCCAATTAG AACAGAAGCT GCTCCTACAG CGTATTTACG AATAGAAAAA 27420 CGCTGTTGTT TTTCATGTTT CATTGCAAAA CCTCCTGATT GCATTGTTAT ATTGATAGCG 27480 ATTATATAA TCAACGCCTT TATTTTATTT CTTATATTAA TTTCTTATAT TAACGAGAGT 27540 CAAGAGGAGA TGACAAAAAA CTATAATAAG TATAAAAAA TATAAAATTT AAACTTAAGA 27600 TTTCAGATTG GTCGGAAAAA ATACGTATAT ATATCTAGTA TAATTTTTGG TTCTATTTCT 27660 ATAAAATATT CCACAAATTA TAGAATTTC CAAAAATAGG TAAGCGCTAC CTTTTTGGTG 27720 TAGTATAATA AGCATAGAAA AAGCCCAAGC GATTAGCTCA GGTTTTCTTC TTAGTGATCA 27780 CGGTCACATG AGATAAATTT AATCTTGTAG TAATCAGATC GTTTGTAAGT TTCACTGTAT 27840 TCTAAAACTT GGCCAGTTGA TTCGAGTTTG GTGATTTTAG TTTGTAGGAC AGTAGGGAAT 27900 TGTTCATCGA CTCCGAGGAC TGAAGCTGCA TGTTCTGGAG TTGGAAAGAC TATTTCGTTG 27960 ATTTCTTCAA AGTGTTCATC ATTCATGTGA ATGTGGTAGT CTAACTTGAA ACGATTATAG 28020 ATAGAACTAT AGTATTCAAG GTTTGGATAA TTTGCGTTGA TATATTGTTC TGGGATGTAG 28080 GATGTATGGT AGATATAAAC GACACCGTTT GATTCGCGGA TACGTTCAAT CTTGTAGTAG 28140 AATTGATCGC CGCGTAGACC CAATTTTTCC AAGTAAACAA GCTTGTTTCC GCGTTCAATT 28200 GAAAGAACAG TTACCTTATC ATCTTTAGCA TTGAAGAGTT CAATATCTGA AAACTCTACA 28260 AGCTTGTGTT TGCGTGCACG TGAAACGAAG GTTCCTTTTC CTTGTTGGCG GACAATATAG 28320 CCATCTTTGG CAAGGTCGTT TAAGGCGCGA ACAACTGTGA TAGAGCTGAC ATCGTACATT 28380

677

GAAATGAGTT	CTGCTTCAGT	GTAAAATTTA	TCTCCACTGC	TAAACTGCCC	AGAGATGATT	28440
TTATTTTTTA	ATTCGTCTTT	TATGTATTGA	TGG			28473
(2) INFORM	ATION FOR SI	EQ ID NO: 84	4:			

## (i) SEQUENCE CHARACTERISTICS:

(D) TOPOLOGY: linear

(A) LENGTH: 6749 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 84:

CCTGATGGGT GGTATGCGAG GATACAGTTC TGAAAATCGC CGTTACTTAA TTAATGGACG 60 CGAAGTCACA CCTGAGGAAT TTGCTCACTA TCGTGCGACT GGTCAATTAC CAGGAAATGC 120 AGAAACTGAT GTGCAAATGC CACAACAGGC ATCAGGTATG AAACAAGGCG GTGTCCTTGC 180 AAAACTAGGT CGAAACTTAA CAGCAGAAGC GCGTGAGGGC AAGTTGGATC CTGTTATCGG 240 ACGAAACAAG GAAATTCAAG AAACATCTGA AATCCTCTCA CGCCGCACCA AGAACAATCC 300 TGTTTTGGTC GGAGATGCAG GTGTTGGTAA GACAGCAGTT GTCGAAGGTC TAGCGCAAGC 360 CATTGTGAAC GGAGATGTTC CTGCTGCTAT CAAGAACAAG GAAATTATTT CTATTGATAT 420 CTCAGGTCTT GAGGCTGGTA CTCAATACCG TGGTAGCTTT GAAGAAAATG TCCAAAACTT 480 AGTCAATGAA GTGAAAGAAG CAGGGAATAT TATCCTCTTC TTTGATGAAA TTCACCAAAT 540 TCTTGGTGCT GGTAGCACTG GTGGAGACAG TGGTTCTAAA GGACTTGCGG ATATTCTCAA 600 GCCAGCTCTC TCTCGTGGAG AATTGACAGT GATTGGGGCA ACAACTCAAG ACGAATACCG 660 TAACACCATC TTGAAGAATG CTGCTCTTGC TCGTCGTTTC AACGAAGTGA AGGTCAATGC 720 TCCTTCGGCA GAGAATACTT TTAAAATTCT TCAAGGAATT CGTGACCTCT ATCAACAACA 78Ò CCACAATGTC ATCTTGCCAG ACGAAGTCTT GAAAGCAGCG GTGGATTATT CTGTTCAATA 840 CATTCCTCAA CGTAGCTTGC CAGATAAGGC TATTGACCTT GTCGATGTAA CGGCTGCTCA 900 CTTGGCGGCT CAACATCCAG TAACAGATGT GCATGCTGTT GAACGAGAAA TCGAAACGGA 960 AAAAGACAAG CAAGAAAAAG CAGTTGAAGC AGAAGATTTT GAAGCAGCTC TAAACTATAA 1020 AACACGCATT GCAGAATTGG AAAGGAAAAT CGAAAACCAC ACAGAAGATA TGAAAGTGAC 1080 TGCAAGTGTC AACGATGTGG CTGAATCTGT GGAACGAATG ACAGGTATCC CAGTATCGCA 1140 AATGGAAGCT TCAGATATCG AACGTTTGAA AGATATGGCT CATCGCTTGC AAGACAAGGT 1200 GATTGGTCAA GATAAGGCCG TAGAAGTTGT AGCTCGTGCT ATCCGTCGTA ACCGTGCTGG 1260

678 TTTTGATGAA GGAAATCGCC CAATCGGCAA CTTCCTCTTT GTAGGGTCTA CTGGGGTTGG 1320 TAAGACGGAG CTTGCTAAGC AATTGGCACT CGATATGTTT GGAACCCAGG ATGCGATTAT 1380 CCGTTTAGAT ATGTCTGAAT ACAGTGACCG CACAGCTGTT TCTAAGCTAA TTGGTACAAC 1440 AGCAGGCTAT GTGGGTTATG ATGACAATAG CAATACCTTA ACAGAACGTG TTCGTCGCAA 1500 TCCATACTCT ATCATTCTCT TGGATGAAAT TGAAAAGGCT GACCCTCAAG TTATTACCCT 1560 TCTCCTCCAA GTTCTAGATG ATGGTCGTTT GACAGATGGT CAAGGAAATA CAGTAAACTT 1620 CAAGAACACT GTCATTATTG CGACCTCAAA TGCTGGATTT GGCTATGAAG CCAACTTGAC 1680 AGAAGATGCG GATAAACCAG AATTGATGGA CCGTTTGAAA CCCTTCTTCC GTCCAGAATT 1740 CCTCAACCGC TTTAATGCAG TCATCGAGTT CTCACACTTG ACTAAGGAAG ACCTTTCTAA 1800 GATTGTAGAT TTGATGTTGG CTGAAGTTAA CCAAACCTTG GCTAAGAAAG ACATTGACTT 1860 GGTAGTCAGT CAAGCGGCTA AAGATTATAT CACAGAAGAA GGTTACGACG AAGTCATGGG 1920 GGTTCGTCCT CTCCGTCGCG TGGTTGAACA AGAAATTCGT GATAAGGTGA CAGACTTCCA 1980 CTTGGATCAT TTAGATGCTA AACATCTGGA AGCAGATATG GAAGATGGCG TTTTGGTTAT 2040 TCGTGAGAAA GTCTAAGACA GAATTTTGAG GATAAAAAAG AAGGAGCCAG CTGAAAAAAA 2100 CTGGTTCCTT TTTAGGTACG ACAGGCATGT CGTATAGTAG AAGTGTATTA TTCTAGTTTC 2160 AATATACTAT AGTAGCTCAG AAGTCGGTAC TTAAACGTGC TATATCAAAA CCAGTCCTGG 2220 AAAAACGTGG ACTGGTTTCG TGTTTGGATT ATTACCTTGA ACGACATGCG TTAAAAGTTA 2280 GTTGAACCGC CGTATGCCGA ATGGTACGTA CGGTGGTGTG AGAGGGGCTA GAGATTATCC 2340 CCTACTCGAT TTTAAATCAC ATGACGTTCA AAGGCATCAT CTGAAATCCC TTGTTCCAAG 2400 ATGAGTTTTG CCCATTCTTT AGCAGAGAG AGGCTGTGGT CCTTGTAGTT TCCGCAAGAT 2460 TCGATGGTTG TCCCTGGGAC ATCTTCCCAA GTAGTAGTTT CAGCGATTTC CTTGAGCGAA 2520 TCCTTGATAA CAGCTGCGAT TTTAGCACTG GTGTGACGTC CCCACATAAT CATGTGGAAG 2580 CCTGTGCGGC AACCAAATGG TGAACAGTCA ATCATGCCGT CAATGCGGGT ACGGATGAGT 2640 TTGGCTAAGA GGTGCTCGAT AGTGTGAAGG CCGGCAGTAG GGATAGAGTC TTCGTTTGGT 2700 TGCACCAAGC GAATATCATA ATTGGAGATG ATGTCTCCTT TTGGTCCTGT TTCTTCCCCA 2760 ATCAAGCGAA CATAGGGTGC TTTGACAATG GTGTGGTCAA GTTCAAAACT TTCGACAATA 2820 ACTTCTTTTG ACATGGTAAA TCCTTTCAGT TTTCTTCTCT CATTATATCA TAAAGGTTGC 2880 TCCTGAGACA GAGAGAAAAC CTCTCCGAGG CTGGAGAGGT TGAAATCTTT ACTTACGATA 2940 TAAGCGGTCG TATTGGTAGT ATGGGTCAAA GGTTACGTTG ATACCCAGTT TACGAAGGAC 3000 ATTCTTGTCT TCATCAGTCA AGATGATGGT TGAGTGGGCT TCGCTTCCTT TGAGGTTGCC 3060

GAGTTCTTCC	ATAGCGCGGG	CAGCATCAGG	ATTTTCTGTA	GCTGTGATAG	CAAGTGCAAT	3120
CAGGATTTCA	TTTGAATGAA	GGCGTGGATT	GCGGCTACCG	AGATGATCGA	TTTTAAGACC	3180
TTGGATTGGC	TTAACAACTT	CAGGCTCGAT	TAGTTTTACT	TCTTTAGCGA	TGTCAGCTGA	3240
TTTTTTGATG	GCGTTGATCA	AGGCAGCGGC	TGTAGGACCA	AAGAGTTCTG	AGTTCTTACC	3300
AGTGATGATT	TCCCCATTTG	GCAATTCAAA	GGCTAGGGCT	GGTCCACCAG	TTTCTTCTGC	3360
TTTTTGGCGC	GCAACGACAG	CAACCTTACG	GTCTGCAGGT	GTGATACCGA	GGTCGTTCAT	3420
GAGCAACTCA	ATTTTCTTGA	CGGCAGCTTC	GCCAACTTTT	TCAGCTTTGA	AGTCAAGAAC	3480
TGTTTGATAG	TAACGGCGGA	TGATTTCTTG	TTTAGAAGCT	TCGACAGCGG	CCTCGTCATC	3540
TGTAATAGCG	AAACCAACCA	TGTTGACACC	CATATCTGTC	GGTGAAGCGT	ATGGTGATTT	3600
TCCGAGAATÀ	CGTTCCAACA	TGCGTTTGAG	CACTGGGAAG	ATTTCGATAT	CACGGTTGTA	3660
GTTGACAGTG	GTTTCTCCAT	AGGTTTGAAG	ATGGAAGGGG	TCAATCATGT	TGACATCATC	3720
AAGGTCAGCT	GTGGCAGCTT	CATAAGCCAA	GTTAACTGGA	TGATGAAGGG	GAAGATTCCA	3780
AACAGGGAAG	GTTTCAAATT	TAGCGTAGCC	AGATTTGATG	CCATTGATTT	GGTCGTGGTA	3840
CATATTGGAC	ATACACGTTG	CCAATTTTCC	AGAACCAGGT	CCAGGAGCGG	TTACGACAAT	3900
CAAGTTGCGA	CTGGTTTTGA	TGTAGTCGTT	TTTGCCCATG	CCTTCTGGGG	AAATGATGTG	3960
ATCCATATCC	GTCGGATATC	CTTTGATTGG	ATAATGAAGA	TAAGAATCAA	TTCCGTTTTT	4020
CTCAAGTTGA	TTGCGGAAGG	CATCTGCAGC	GGGTTGGCCA	GCGTATTGTG	TAATGACAAC	4080
GGAACCAACA	AAAATCCCTA	ATTCATTGAA	TTTATCAATC	AAACGAAGAA	CTTCTTGGTC	4140
ATAAGAAATG	CCTAAGTCGC	CACGTGCTTT	GGAATGTTCA	ATGTTGCTAG	CATTAATGGC	4200
AATCACAACC	TCAACCTGCT	CTTTCAATTC	TTGCAAGAGC	TTGATTTTGT	TGTCAGGTTC	4260
ATAACCAGGA	AGGACACGAG	CAGCGTGGAA	ATCTTCTAAC	ATTTTACCGC	CAAACTCTAA	4320
GTAGAGCTTG	CCGTCAAATT	GGTTAATGCG	CTCCAAAATA	TGGTCGCGTT	GTAAATTCAA	4380
ATATTGTTCA	GAACTAAAAG	CTTGTTTTT	CATTTTTTA	CCTCTGGACT	CTATTATAAT	4440
AAAAAATTGG	AAGTTAGGAA	ACTACGGAGC	TAAAAAAGAA	ATTAAAAAGA	TTAAGCAAAC	4500
GCTTGCACAA	AATTTTAAAA	AGTGCTATCA	TAGACTATAG	ATTATGAAAA	TAATGAGGTA	4560
AACAGATGCA	AGAAAAATGG	TGGCACAATG	CCGTAGTCTA	TCAAGTCTAT	CCAAAGAGTT	4620
TTATGGATAG	TAATGGAGAT	GGAGTTGGTG	ATTTGCCAGG	TATTACCAGT	AAGTTGGACT	4680
ATCTAGCTAA	GCTAGGAATC	ACAGCAATTT	GGCTTTCTCC	CGTTTATGAC	AGCCCTATGG	4740
ATGATAATGG	CTATGATATT	GCTGATTATC	AAGCGATTGC	GGCTATTTTT	GGAACCATGG	4800

			680			
AGGACATGGA	TCAGCTGATT	GCAGAAGCTA	AGAAGCGTGA	CATTCGTATC	ATCATGGACT	4860
TGGTGGTCAA	TCATACCTCA	GATGAACATG	CTTGGTTTGT	CGAAGCCTGT	GAAAATACTG	4920
ACAGCCCTGA	GCGAGACTAC	TATATCTGGC	GCGATGAACC	CAATGACCTA	GATTCTATCT	4980
TTAGTGGGTC	TGCTTGGGAA	TACGATGAAA	AGTCAGGTCA	ATACTATCTC	CACTTTTTCA	5040
GCAAGAAACA	GCCGGATCTC	AACTGGGAAA	ATGAAAAACT	TCGCCAGAAA	ATTTATGAGA	5100
TGATGAACTT	CTGGATTGAT	AAAGGTATTG	GTGGTTTCCG	TATGGATGTT	ATTGACATGA	5160
TTGGCAAAAT	TCCTGACGAG	AAGGTAGTCA	ATAATGGTCC	TATGCTCCAT	CCCTATCTCA	5220
AGGAAATGAA	TCAGGCGACC	TTTGGAGATA	AGGATCTCTT	GACAGTAGGG	GAGACTTGGG	5280
GAGCAACTCC	AGAGATTGCC	AAGTTCTACT	CTGATCCAAA	GGGGCAAGAA	TTGTCTATGG	5340
TCTTCCAGTT	TGAACATATC	GGTCTTCAGT	ATCAGGAAGG	TCAGCCTAAA	TGGCACTATC	5400
AAAAAGAGCT	GAATATCGCT	AAGTTAAAAG	AAATCTTCAA	CAAATGGCAG	ACAGAGTTAG	5460
GAGTTGAGGA	CGGCTGGAAT	TCCCTCTTCT	GGAACAACCA	TGACCTCCCT	CGTATTGTCT	5520
CAATCTGGGG	AAATGACCAA	GAATACCGCG	AAAAATCTGC	CAAAGCCTTT	GCAATCTTAC	5580
TTCATCTCAT	GAGAGGAACT	CCTTATATCT	ACCAAGGTGA	GGAGATTGGG	ATGACCAACT	5640
ATCCGTTTGA	AACACTGGAT	CAAGTAGAAG	ATATTGAATC	TCTCAACTAT	GCGCGTGAGG	5700
CTCTTGAAAA	AGGTGTTCCG	ATTGAAGAAA	TCATGGACAG	TATCCGTGTT	ATTGGACGTG	5760
ACAATGCCCG	TACCCCTATG	CAATGGGACG	AGAGCAAAAA	CGCTGGTTTC	TCAACAGGTC	5820
AACCTTGGTT	GGCGGTTAAT	CCAAATTACG	AGATGATCAA	TGTCCAAGAA	GCGCTGGCAA	5880
ATCCAGATTC	TATTTTCTAT	ACCTATCAGA	AACTGGTCCA	AATTCGCAAG	GAGAATAGCT	5940
GGCTAGTTCG	AGCTGACTTT	GAATTGCTTG	ATACGGCTGA	TAAGGTCTTT	GCTTATATAC	6000
GTAAGGATGG	CGACCGTCGC	TTCCTAGTTG	TGGCTAACTT	GTCCAATGAA	GAGCAAGACT	6060
TGACAGTAGA	AGGAAAAGTC	AAATCTGTCT	TGATTGAAAA	CACTGCGGCT	AAAGAAGTAC	6120
TTGAAAAACA	GGTCTTGGCT	CCATGGGATG	CTTTCTGTGT	GGAATTACTA	TAAATATTTT	6180
TTGCAGAAAA	ATTTAAAATT	GAAATCGTAT	AAAAACAAGG	GAGGACTGTA	TAAAAGACAG	6240
AAATCCTTTG	TTTTTTATAA	CCAAAGTTTA	TAAACTTTCA	TTCTTGAAAT	TCAATTAACT	6300
TTACAAATTC	CCACTATTAA	GGAGAAAGAA	GATGAACATA	AAGAAGCGTG	TCCTTAGTGC	6360
AGGCCTGACT	TTTGCATCTG	CTTTGCTTTT	ACCCAAATCA	TTCATACCTC	TCTCAACTAG	6420
ATGTAACTTA	CAAAACCCCT	GACCTCATGA	GCCACTTTCT	TCCTCCTCAT	GAGGTCAGTT	6480
TTACTTTCTG	CTGTTCCAGT	ATCGTTTTTC	CTCGCTAGAT	TTCCTCAAAA	GGGCAGACTC	6540
CTCCCTTGGT	GCGTCACACG	ATTTTTTCAT	CTCGACTGTT	CTTTAATGCA	TCATTAACGA	6600

681

CGCTTTTCTT	CTAGGTGGTT	CATAAGGAAC	AGGAAGATTC	AGGTTGACTT	TTCTAATCCT	6660
AGAATAAAGT	GCTGAAAACA	ATTCGGAATA	GGCATAGAGA	CTAGACAATT	TGAGGAGCTG	6720
CTTGCGTCCT	GTTCGAACAC	ATTTTCCGG				6749

### (2) INFORMATION FOR SEQ ID NO: 85:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 1842 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 85:

TCTACCCATG GACTITGAGG CATTCATTGT TCCATCTTCT AGTGGCGAAT CTTTTGATAC 60 AAACGATTCA ATTCACTTGG ATAGTGAAAC TCTCCCGCAA ACATTTTTCT GGTTAACTCA 120 ATCCAGCTGA TATTTCTTTC AGCCAAAATA ATGGACAAGT TCTCCCAAAA TCGTTCAGCC 180 ATATTGCTTC TCCTTTAGTT AGATAAATAA TGTGTTTGCG CCATGTAAAT CAATTGTTTC 240 GTATCTCTTG GCAATAGAGC TCTAGCCTCT TCCAAATTCA GACTTGGATA AACTCGCTTA 300 TTTGAAACCG CAAGAGGAAG TCTGATGGTT AGTTCAGGAT TTTTTAAAAT TATCTCAACG 360 AAATCCGTTA ATCTTAGATT GTCACGGTTC TTAAATCGTA ATAAATTGGG AGATAAAAAC 420 TCAAAACAAT CTGAAGAATA GCTCATCATC TCAATTAATT TGTCCTTTGT CATTTCAGAA 480 ACTGAATGAC AAGATACCTC TATGCCATAG TTTTGGAAGA AATCTAAAAG AAGTTGATTT 540 CTTTGTCTAT TTTTACTTAG ATAGAGATCA ATCATGGGAG ACCTCCCAAA GATTCGGTTC 600 CATTTGATAT TCTGACACGA TTAAGGAATC TAATAAATTA AGGAATCTAA TAAATTTGCG 660 AAGTTAATCG GTTTCTTGTC TTCATCATAA GCTTTTACAG TTACTTGGGT TGTAAGTATT 720 CCCTCTTTTC CCTCGCCTCG ATAGCCTTGT CCATATAAAA CAAAAACGAG ATTTTGATGA 780 TCATCTACAA AGGCATCAAC CCCATTCTTT ATGTCTTGAC TTTCAAGGAA TTCCATAACG 840 TTTTGAAGAT AGGATTCGTA AAATAGTGGG TAGTTATGTT TTTTATGGTA ATCATCTAAA 900 AATGTCACTT CAAACTCACA TGGAGAGTAA TTTTGACTTT GAACAGCCTA AAAGTGCCAT 960 CAAATTTGAA TTGGAATAAA TCAAATAAAT AGCCCCATCC TCATCAATCC AACCTTTGCT 1020 CAAAGACAAC TCCAACCGAT CTTTTAAAAC TGAGTAAACC ACCTTAACCT CCAGTTTCAT 1080 ATTCTTATAC CGTTCACTCT CAAATAAAAG TTTGGGGAGC TTATAATAAC GCTCTGATGT 1140 CTGATATTGA TTAGCGGTAA TACGCTTCAT TATTGTCCCT CCAAGACTAA AATTCCAACA 1200

		•	682			
TTTCCAAATT	CATCAAATCG	GATTAAACCT	ACTTGTTCCA	TTTCATCAAC	TAACTGAGTT	1260
GCTTTTACCC	AAATCATTCA	TACCTCTCTC	AACTÄGATGT	AACTTACAAA	ACCCCTGACC	1320
TCATGAGCCA	CTTTCTTCCT	CCTCATGAGG	TCAGTTTTAC	TTTCTGCTGT	TCCAGTATCG	1380
TTTTTCCTCG	CTAGATTTCC	TCAAAAGGGC	AGACTCCTCC	CTTGGTGCGT	CACACGATTT	1440
TTTCATCTCG	ACTGTTCTTT	AATGCATCAT	TAACGACGCT	TTTCTTCTAG	GTGGTTCATA	1500
AGGAACAGGA	AGATTCAGGT	TGACTTTTCT	AATCCTAGAA	TAAAGTGCTG	AAAACAATTC	1560
GGAATAGGCA	TAGAGACTAG	ACAATTTGAG	GAGCTGCTTG	CGTCCTGTTC	GAACACATTT	1620
TCCCACCACG	TGAAGAAAAA	GATGGCGGAA	GCGTTTGATT	GTTAAAGTTT	GGAAGTCACC	1680
TCCAGCTAGA	TGTTTGAGAA	AAAGATAGAG	ATTGTAGGCG	ATACAGCTCA	TCATCATACG	1740
AACTTCGTTT	TTGATTAAGG	TTGAACTATC	CGTTTTATCG	ССААААААТС	CCTCCTTCAT	1800
CTCCTTGATG	AAATTCTCGG	CTTGACCACG	TCCACGATAA	AG		1842
(2) INFORMA	ATION FOR SE	EQ ID NO: 86	5:			

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 19390 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double
   (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 86:

TCATCTT	ТАТ	CTCCTCGAAA	TTTTCTAATA	TAGCCATTAT	AACAGAATTT	TGTGAAAATT	60
CCTATTA	TAG	TAAATCACTA	TTTCAGTATA	AAAAGAAAA	ACGAATCAGA	CGATTCGCTC	120
TTCTTAA	ААТ	CTGAAAATAG	CTTTCCAGAA	AGGATTAGCC	GATTTTTTGC	AGATTGAGCA	180
CTGCATC	GTG	ACTCATCAAG	ACTTGACCAT	ACTCTTGTAA	GACTGAGCGA	CTGATATCAC	240
TATCGTC	TGC	AAACTCGCGC	ATACGGGCCA	ACAGCCAAGC	TGGATATGGG	CTTGGATGAT	300
TTTCAAT	ATC	CACTAAAATG	GTCAAATAAT	AGCGCTCGTT	CATTTTGTAG	AGTTCAGAAG	360
TTTCCAT	TTC	AAAAGTCACT	GTCTTGGCAA	AAGCTACCAA	GTCAGCCAAC	TTAGCAAAAG	420
AAAGGAT	GTA	GTAGATGTAA	GGTTCTTTCT	TACTCTCAGC	TTCTTGTTCA	GCCTGCTCTT	480
GCTCTTC	TTC	CTTGACTTCA	ACTTGCTCAA	GAGATTGAAT	GGCTTCGATA	TCATCCTTGG	540
TTTTGTC	TGC	GATGCTTTTT	TCCAGGGTTT	TGATAAATTC	ATCTGGAGAC	ATTTGAGCCA	600
ATTCTTC	CAT	ATCTGGCAAA	TCCGATAAGT	CTTCAAAATC	TAGATTTTGG	TCAATCTTTG	660
ACTTGGT	CAC	AAAGACATCT	ACCTTATCAG	GTTTTGGAGT	CACACGGAAG	CTCAACATGC	720
CTGTATC	CAG	AAAGCTATCA	GGCATCTCTA	GCTCATCCAA	GATAGCATAA	AAGAACTCTT	780

TGTTTTTTC	TTGAGGAACG	AGAAAGTCAG	CAATCTCCAT	TCCACGATCC	ATCAAATCCT	840
TAAAGATAT	CGTGATTTTT	AAAGTTGTAT	CACTAATTTG	TTTCATTTTC	ATTGCTAGTA	900
CCTCATACT	TTCAGTTCTA	TCTATTATAC	TAGATTTTA	CGATTTTATC	AAAAGAAGGC	960
CCTCTATAC	GGATAGATTT	TCCCTAGGGT	CTTTCTATAG	GAGACTCCAA	AAGAAAATTT	1020
TGCAGACAG	ATAGAAAAAG	CCTTCAAAAT	CGGCTAAGAG	CCGACTTTGA	AGACCTTATA	1080
CATCAGAATA	CTTATAATTT	AAAGGTTGCT	ACACCGAGGA	TAGAACGATT	TAAGTTTCTG	1140
IGAATTTGAA	GACTTTGCTC	AAATTTCTTA	TAACGAGTCA	CTCCGTACTC	TTCAACAAGA	1200
AGGACTGTAT	CTCTTTCCAA	AAGAGATGAT	ACATCCTGTA	AATCTACAAA	ATGCATTCCT	1260
TTAAAGCTT	CTTGACTCTG	TTTCAATTTA	TCTAAGATAG	CTTTATTTGA	GCTAACGATG	1320
TCAATTCCT	GTCCAGTATT	TTTGTATGAC	AAAACATCTG	CTAGGTTAGC	AATTGTTGTA	1380
ATCTCTGTTA	CAAAATCAAT	TTGATACTGA	GAAAAATCAC	CTACTCTATT	GATTGTTGGA	1440
TAAAGAGAT	AAACTAACAC	ATTTCCCATC	ACAACCAAAA	TCACACAAAC	CACTCCAATA	1500
CAACTAAAC	GAAGAATCAG	ATTTTTCACA	TTTAAGCCAA	GCGCTGTTTC	ACCATTTGCG	1560
TCAATTCTT	TAGAGTTGAT	GGTTTCCAGT	TTTTCAATTT	TCACATTTGC	ATAGGCATGT	1620
TAAATTTCT	CAATCAACCC	ATCAATTTTT	TTCTCTAACA	AGTTATTGGC	ATCTTTACTT	1680
GATGTCAAAA	TTTTCACACC	AACCCCTGCA	TCGTCAATCA	TATAGTAGAC	GGTCAATTTT	1740
TCCACCAAT	AGTCATTCGT	TGAATTTTTC	AAGGTTGTTT	CTGTCGTGTC	TAATTCACTG	1800
CAATTTTTT	TCAACTCACT	GGGTTCTACA	TCATTGAAAA	GATAAGCTCC	ATTCAAATTA	1860
CATCAATCA	ATTTCCCATA	AAAATCACTA	TAACCACCAA	TTTGATGATT	CAAAATCGTT	1920
TGTCCGACT	CTTTTGGAGG	AGTGATTTTA	TAGATAAGAT	AAGTTGAATA	ACTTGTTGTA	1980
CTTTGACAG	TGTTTTTATT	CCTAACTGCT	TTAATTGTAA	ATGGTACAGC	AATGAGAGCA	2040
ATAAAGCGA	TGAGAGCTAA	AATATTTGCT	TTTCGCTTTT	TATAAAGATT	TGCAAACAAA	2100
CAGCTACTG	AATAATGTTC	AAACATGATT	TTTTTCTCCT	TTGTTTAGTA	GATACTAGTT	2160
TCCTTTGTA	AGCATTTTTG	CTACAAATAT	AATCACAAGA	ACAATTCCCC	AGAATTGCAT	2220
'GTAAATAAA	TTGAAGAAAC	TTTCTGAAAA	GCTGCTTCTT	GGCATAAAGA	ATAGATTATT	2280
AAGATGAGT	AGGGATAAAG	CAAATAGGAT	TGTCCTTGAG	CGATAGGCTA	CTTGCAGCAT	2340
GCTATAAAT	AATACGCCGA	GTAAGAAACT	AAGCAGAAAG	ACTCCAATCA	TACCATAGTC	2400
GTATACAAC	TCCATGATAT	AACTACTTCC	GATACCATGC	CCTTTCAAGT	ATTCCTTGTT	2460
AAGACAAGA	TAGGATAGAT	TGTGGGCATA	ACTATTACTA	TCAATAGCTA	GTTCCACACT	2520

			684			
ATTGGTTGTA	TGTTCAAAGG	CTTTTCCTCC		CCCAAACTCC	CCCTTGCAAA	2580
ATAATCAAGA	ACAGGACCAA	AAGTAAAATT	ACGGAAATCT	CGGTAAGGGA	GGCTACTGTT	2640
AAATAGAAAA	CCTCGAGCCA	GAACACCAAA	ACTAGTCCCT	TGTTTATAGA	TAAAGTCAAG	2700
TAAGATATCC	CAGAAACCTG	TATGGGAAAC	TTGGACATTA	TCCCGTACAT	AATTGAGTAC	2760
TCCCATCGCT	AACATGAGAA	TAGGAGAACC	TACAAAAATC	GCTAACTTTT	CTTTAAACCC	2820
AATCCATTTT	CCTTTTTCAG	TTTGCTCCCG	CATAAAGTAA	TAAACAAAAG	CAAATmAAAT	2880
АСТТААААТА	AAGGGATTTC	GTGTCCCAAT	TGCCAAATGA	ATAGTATTAG	CTGCAATAAA	2940
GGAGACAAGC	ACTGCTGTGG	CCTGCAATTT	CTTTGGCTTG	GTTGCCAGAT	ACATACACAT	3000
TGCATAGACC	GTAAAGGTAG	ACAAAATGTA	GGTAAAATAA	GGCAGTTTAC	TTTCAAAATT	3060
TGCATAGTAG	GCATAGTAGG	AAGTCTGCAA	ACGATACAAG	AGCCGTTCAA	ATAACCGAAT	3120
GAAATAGAAA	GGATAAGTTA	GAAGAAAAAC	TCCTAGTGAT	ACAAAGCGTA	ACCGCTTGAT	3180
ATAAACCTCT	TTTAGAGAAT	TTCCTATATT	TGCTACTTTT	ATTTTCTTCC	TAGCTATGAA	3240
GTAACGAGCC	AGAATGCCTC	CTGTGGTCAA	GCCCAGAATC	GAAATCATGA	СААСТАТААА	3300
GGCAAAACGA	TAGGCTATTG	GATGATAGGT	ATCCAAAGCA	CCATCCCTAA	AATAATCAAT	3360
GGTCGGTCTT	GATACCAGAA	ATACAAAAAT	GGTTAAATAG	ААААТААААТ	GGATTAAGTA	3420
ATACTTGATA	TCATTCCAAC	AAGCAATTAA	GCTACTAACC	AACAAGAACA	ATAAAGTAGA	3480
AAGTAAGCTA	ACATTATTAT	TATTAAACAG	ATACACAATT	CCACTTACTA	GCGTCAAGGC	3540
ATAACTGACT	ATGGTCAAAC	TAAATAATAA	TCGTTTCCCA	TCAATCACTT	GGTCACCCCC	3600
GTTCTAATGT	AATTTTTTAG	ATTTTTCAAT	ATTTTTCAGT	AATAAGAATC	GATATAAGGA	3660
AATATTTATG	AATAGGGCCA	AAGCACTAAT	TCTTCTCCCC	TTACGGAAAA	TTGGATTCCT	3720
AGAAATAGCA	AAGGCATGGC	CTTTTAAAAA	ACGATGAATC	TGAGAATAGG	CTTCAAACTG	3780
TTTATACTGA	TCATCTAGCA	ACATCTTATC	CAGAATAAAG	AAGTGGGCAT	AGGCCAATCT	3840
GAAAAAAGCG	ACCTCTTTCA	AGTCAGGATA	GTTTTTCACA	ACTTCATTAT	AAAACTTTTG	3900
GTAGATATCA	ATATAGGCTA	AATCCTTCTC	TGCATAGGGT	TTGGTCGTAA	TACTATCCCC	3960
TCTATGGAAA	TAGTAATAAT	AGGGTTTAGT	ATTAACCACA	TACTTCTTGG	CCAACTTGAT	4020
ТАААТСАААА	TGGTAATAGG	CATCTTCGTA	AATCAACCCC	TTAGGAAAGG	ATAGGGCAGT	4080
TGCAATCTGT	CTCTTGATTA	GCTTATTGCA	AATCGTCCCA	GGTATTTTTT	CACCTATGAG	4140
GTATTCCTTT	AGAAATGTTT	GAGAATCACA	GACAAAATAG	TCATCCTGAT	TGGCTGACTG	4200
TGGGCTTTCA	TCATTAGCAT	AGACATTCAT	GACACCACAG	CTCGAAACAT	CCGCATCTTC	4260
TTGAACTAAT	TGCTCATATA	AGCTCTGAAT	CATTTCTGGA	TGGATATAAT	CATCTGAGTC	4320

AATAAAAATC	AGATAATCCC	CGTGAGCCTG	CTTCATCCCA	TCATTTCGTG	CTTGCGACAA	4380
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CAAGCGACCA	CTTTCATCTG	TTGCACCATC	ATCAACAAGA	ATAATTTCCA	GATTTTGATA	4500
GGTCTGCTTC	TGAATGGAAG	CTATCGATTT	TTCTAGGTAC	TGCGCCACAT	TATAGACTGG	4560
CACAATCACA	CTAATTAATG	CAGTTTCCAT	GCTACTCCTC	TAATAGTTTT	TCTACTTGTT	4620
CGATTTGTTT	TGTAATTGTA	AATTGTTGAA	TGAATTGGCT	AGCCTCATCG	ACATCAAAGT	4680
TTGAGGCAGA	AGTCATGTAA	TTAGTAATCG	CCTGAGCTGC	CTCTTGATTG	CTCTCAATGA	4740
TTTGTCCAAA	TCGTCCTTCT	TGGGATAATT	CCTCAGCCCC	TCCAACGTCC	GTAGAGATAA	4800
AAGGGAGTCC	CAGACTCAAG	GCCTCCACAT	ACACTCCAGG	AAAACCTTCT	TGTTTAGACA	4860
TAGACAAAAG	AACTTTCGTC	TGAGATAGAT	ACTGATAAGG	ATTTTTTGA	TAACCAAGGA	4920
AATGTACATA	GTCCTCAATC	CCATACTCTT	TGACTCGTTT	TTTCAGTTCC	TCTTCCATAT	4980
CACCAGCCCC	GATAAAATAG	AGATGATAGT	TTTTTCCCTC	TTGGTGTAAT	AATCGTATCA	5040
CTTCCACTAC	ACGGTCAGAA	CCCTTATTTT	CCTCAATCCG	TCCGATAGTA	CAGATACTTT	5100
GAGGAGCAAT	CTCGATATCG	ATCTTCTCTT	GAGATTTTTC	TAGAATAGTC	TGAAAATCAT	5160
ATCCATTGTA	GATTGTCTGT	AATTTAGAAG	TATAATCTGG	ATAAACTTCC	TTGATAGAAT	5220
TGCTGGTCTT	TTTTGAAATC	CCTACAATTG	TATTCGCAGC	ATCCAACTGG	CTTCTATGTG	5280
ATTCTCTTTT	AGAGCTATCC	TTAAGAAGTT	CTTCAATACT	TCCATGAATC	CAAGATATCT	5340
PCTTGACTTC	TCTTCTTTTA	GAGAACAACA	GTGGTGGATT	CATAATGGTA	AAAGAAACTT	5400
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ITCTCCACAA	AAAAGCTCGT	AACCATCTGG	TTTGGCGATA	ATCTTGAAGG	GATTTTAAAA	5520
<b>IGCGTACATG</b>	CTTTGGAACA	GATTCATATC	CCTTGTCAAA	GTGCTCCATT	TCAAGAATAT	5580
CAATATCATA	CTTTTCTGGA	TCCAGATTTG	AAACAATGGT	TGATAGAATC	TTCTCTGCAC	5640
CACCTCCAAG	AGAAAAAGAC	CACATAAAAA	ATAAGATTTT	TTTCTTAGCC	ACCATATTCT	5700
CCCTTGTATT	CTGTATAAGA	CTTATCCATA	TCAGCGATGA	CAGCATCATG	ATGCGGTACC	5760
PGCTTGTCTG	CTGGTGGAGG	CGTCATATAA	TCCCCAAAAG	CAGTTCTGAG	ATAGACATCA	5820
PAGCCGATTG	GAATAGGCAT	CTCTGTTCCT	TCAAATGGCA	AGAAAAGATT	GTCTTCAAAA	5880
GATGTGATTG	GGTACTTGTT	TCTCATGTAG	CCAGGACCTG	AGCATAATTC	TGTAATGCCA	5940
<b>TCACAATCAG</b>	CCAAATCATA	CTTAGTCATT	TCTTTCTCAG	CTTTTTTCCA	GATGCGATAA	6000
CCACACAMM	THECONOMENT	ACCCACTAAA	A THOUGH A CHIMIC	CCCAMMMCAM	CACAMONOON	6060

			686			
TGCTTTTCTG	GAATAGTTTG	CGCACAAAAG	AGTGAATAAA	TCAAGGCCCA	ACGAACCTGT	612
TTTTTCCGCT	CAGCTGGATT	TTTCGGATAA	TAATCCAAAG	GCAAAACATC	CAAGGCCAGA	618
CCATGTGGCA	AATCCAAATC	CTGCTGATAA	GGCTTGATAC	AGGTGGTTTT	CTTGTCACGA	6246
ATGGTAATAA	AAAGATTACG	ATCAACAAAA	TCCTTGTGAC	TCTTTGACAA	GAAATAACGT	630
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AAGTCTAGGT	CGTCGTCCCA	ĄGGAATAAAT	CCCTTGTTTC	GAAGGGCACC	AATAGCGCCT	6420
CCGCCACAGA	GATAACAGAG	CAAATCATGT	TCTTTACAAA	AGGCCACAAA	ATATTCAGCC	6480
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TCAAAGCCTG	ACTGCTATCC	AAATAGCTAT	CAAACTTTGA	TTTTTCTGTC	TTATACTCTT	6660
CGAAAATCTC	TTCAAACCAC	GTCAGCTTCA	CCTTGCCGTA	GGTATAGGTA	ACTGACTTCG	6720
TCAGTCTTAT	CTACAACCTC	AAAACTGTGT	TTTTAGCAGC	CTGCGGCTAG	CTTCCTAGTT	6780
TGCACTTTGA	TTTTCATTGA	GTATTATCTT	ATCTTAAGCC	CATTTGAGCG	AGCTTGGTTT	6840
GATATTTGTT	TTGATCAACC	AGCAGGCCCA	AGCCCCCATA	AACATCATAG	GCATCTACCC	6900
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GACGCCCATT	CAATGTTGAA	AATTGAGCAT	CAATCGTCAC	CCCATCAGGG	AAAAGCGTGT	7320
CAATCGCTGT	GGCAAAGGCC	TGGAAATCAA	CCAAGGCGTA	GTACTTAATG	TCCAAGTCAA	7380
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AACCATCTAT	ATAGACCAAA	TTATCACGCA	TGAAACTGAC	TAGCTTCATT	TTCTTATCTG	7560
AGCCCCCGAC	ATTTAATACC	ATAATAGAGT	CAGTTCGTGT	CTCAACACTG	TTCTGGCCGA	7620
TTCGACCATC	AGTACCCATG	TATAAAATAT	TAACTCCATC	TCTAGTGTCC	TGACCATTAA	7680
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CACGCAAAAA	CATGAATACC	ATGGCCAAAG	CCACACAGAC	CAAAAGTGAA	AAAATCACCA	7800
TAAAAATTCG	TTTAAGACGG	AGCTTCCGTC	J.J. J.	TGGAGGGAAA	GAGAGTGCTT	7860

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CAAGGCCAAA	CTCATCTTTT	CAGTTTGTGC	TTGCAAGGGA	ATACTAGGCT	TTTCAGCTCC	8400
TAGAACCCAG	AAACGTGTGA	AATTGGCTTC	CATTTCCTGA	ATATCCTCGG	CAATCAGTTC	8460
CAATCCATAT	TCTTCAGCAG	AACTTCTAGG	TGCAACTGCT	GCAAAGGGCT	GGTCTGGATG	8520
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TGCTACTGCT	TGGATGTGAG	CCTGATGAAA	AAGATAGTCC	AAGGTTTCAT	GAACACTACC	8760
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AACGTGGTGT	GAAAATGATC	CCTTGGGACC	TAGATAAGCA	ATTTTCATCT	TAGTTCCTCT	8940
ATAATTTCCT	CTGGGCTTAG	CTTGGTCACA	TCCAAAACCC	GACTAGCCAC	TTCCTCATAC	9000
CAAGCCTGTC	TTTCTTGGAA	AATAGCTACT	AGTTCTTCCT	TGCTATTATT	TAGAAAAAGC	9060
GGTCGCTGAT	TGTCCTTATC	AGCTGCGATA	CGTTGGTAGA	GGGTTTCAAA	ATCTGCTCTC	9120
AGGTAGATGT	TATCTGTATT	AGTCTTGAGT	AAGTCACGAT	TTCTCTGAGA	AATAACCACT	9180
CCTCCTCCAG	TTGACACGAC	TTGGTCTGTT	TGTAGTAAAT	CAGCTAGGAC	TTCTGATTCT	9240
ACCTGACGAA	AGGCTGTTTC	TCCCTTTTCA	GCGAAAAAAT	TCGCAATGGA	CATACCTAGG	9300
CGATTCTCAA	TCAGAGCATC	CATATCAAGG	TAATTAGGGT	CCAAGCCTCT	TGCAATAGTC	9360
GATTTTCCAG	CCCCCATAAA	CCCTAATAAC	ACCTTAGCCA	TGAATCAAGC	TCTCCAAATC	9420
ATCAAAGAAA	CTAGGATAGC	TGGTATTGAT	GGCTTCTGCA	CGGTCAAGCT	CCACCTCTCC	9480
ATCTGCAACC	AAGAGGGCTG	CGATAGCTGT	CATCATGCCG	ATACGGTGGT	CACCAAACGT	9540
ATTGACTCTA	GCACCGTGAA	GAGCTGATTT	TCCTTTGATA	ATCATCCCAT	CTGCCGTAGG	9600

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GGAATCACCT	GCTCCTTATA	GGGCATGGAC	AGATTGATGC	CAAACATCTG	GTAGCGACGA	15180
ATATTGGCCA	CTGTTTCTAC	CAAGTCACTC	GCTTCAATCT	CCCAAGCCAC	ATAAGCACCG	15240
TTGGTAGCTG	TCGCCTCAAA	GGCTCTATTG	TGGATGAAGG	GAGAAATAGA	ATGCTTAATA	15300
GGATTGGCAA	CAACTGCAGC	TAAACGTGTA	TAGCCATCAA	GCTTCATCCA	AAATCTCCCT	15360
GATTTTTTC	ATGCTAGCTA	GAGAAATCTG	CCCAGGGGCA	CTAACCTCAT	CCAGACTGGC	15420
AAAAGACCAA	CTCGAACCAG	TCACATCCGC	AGTGATACGA	GAGACCTTGC	CCACCTTACC	15480
CATAGAAATG	GTCACATATT	CCTGTTCAGG	ATTGAGGGTT	TTAAAGCCTC	GTGTATAGTT	15540
CATCAAGTCT	AAGACATCCT	GCTCCCTGTG	AGCCATCACC	GCAACCTTAA	CAAGTTTTGG	15600
ATTTAGGATC	GTCAACTCTG	ACAAGATTTC	CATCATGTTC	TCAGGTGTTT	CTTGGAAATT	15660
ATGGTAACTC	AAAACAAGAT	TTGGGAAGTC	CAGCATTTCC	TCAAAÁACAT	CCTTGTAGCT	15720
ATAGTACTCA	AAATCAATAT	AGTCTGGTTG	ATAGAGTTGC	GCAACTTCCT	TGATTAGATG	15780
GATATACTCT	TCTGGAGAAA	GGTCGATTTC	TCCACCTTCG	GAGCGAGTTC	GTAGCGTGAA	15840
AACCAACTCA	CGGCCTGCGA	AAAOTTTTTA	AATGGCTGGA	GCTACCTGCA	AAATCGCTTC	15900
TTTAGGCAGA	TAGTCGGCAC	GCCATTCAAT	GATGTCGGCA	TCCAGGTACC	TCGTGGCATC	15960
CAGAGCCTGA	GCCTCCTCTA	AACTTCTTGG	CATTACTGAA	ACGATTAATT	TCATTTACTA	16020
ACCTTCATAC	TAATCACCTT	GAGGTAATTA	CTACTTTCAT	CTTTTTTATT	ATAGGCAAAA	16080
TCTGCTGGAA	GACCATATTT	GTTTAAAATC	TGGTAACTTC	TTCCTGCAAA	ACCTTTATCA	16140
ATTTGTTCTG	TAAATTTCTG	ACGGGAAACA	TTGGCAGCAT	TGGTACTGGC	AATGATAATC	. 16200
CCTCCCGGAT	TTAAAATCTC	AAGACTCTGG	GAAATCAACT	TGTGATAATC	CTTGGCCACA	16260
GAGAAAGTTT	GTTTTTTATT	CCGAGCAAAG	CTAGGCGGAT	CTAGGACAAT	CACATCGTAG	16320
GTCAAGTCTT	TGCGTTTGGC	ATATTTGAAA	TACTCAAAGA	CATCCATGAC	TATAAAACGA	16380
TGCTCGTCTG	TGCTGAGCCC	ATTTGCCTGA	AAATGCGCTT	GAGACAATTC	TCGTGAACGT	16440
TTGGCTAGAT	CAACAGAAGT	TGTATGGCTA	GCTCCTCCCA	TGGCCGCAGC	TACTGAAAAA	16500
GCCGCTGTGT	AGGAAAACAT	ATTGAGTAAG	GATTTACCCA	TAGCCAAGCC	GTCAACTAAA	16560
CTACCGCGAA	CCTCATGCTG	GTCTAGGAAA	ATTCCTGTCA	TCAAGCCATC	ATTCATAAAG	16620
ACTTGATACA	GGACACCATT	ттстааааса	TTGAAAAAGT	CAGGTGCTTC	TTGACCATAA	16680

			692			
ACATGGGCAG	ATTCATAGTC	CAAACCCTTA	AAGCGGATTT	TCTCATAAGC	TCCTAAAACC	1674
TCAGGGAAAA	CCTGTCTAAA	GGCTTCTGAT	ATAGTCTGAC	GAATCTGATA	AACATAAGAG	1680
TTATACCAAG	AAAAGACGGC	GTAGTCGCCA	TAAAGGTCCA	CTGTCAGACC	CCCAAAGCCA	1686
TCTCCCTCTT	GATTAAAGAG	ACGAAAGGCA	GTTGTCAAAT	CATCTTGATA	GTAGGCGTTT	16920
CTCTTTTCTT	TGGCTTTTCT	AAACAACGTT	TCAAAGAAAG	CTTGATTGAA	GGCCACCTTG	16980
TCTTTGCTGA	TAAACCAGCC	CAAGCCCTTG	TTTTGCTGAG	AAAGGTAGGC	AGTCCCAAGA	17046
AAGTTTCCTT	CCTGACCCTG	CACCTCTACT	TCCTGATCCT	TAAGATTGAC	ATTCTCAAGA	17100
TCACTGGCTT	CTAGTAAAAC	TAGCCCCTTA	GCAAGCTTCT	TTTCAACCCT	TTTGCTGACT	17160
СТТАТТСТАТ	TCATAACTAC	CATTATATCA	AACTTTTAGA	CAATTCTCAA	AAAAGAAACT	17220
ACCCTTGCTT	TTTTACTCTT	CTTTTAAAAA	ATGGTATACT	AGACTTCCTG	CAAAACTAGG	17280
AAGTAAATGT	GTAAGAATCA	CAGTAAAAA	TGCTCTTCCG	TCTTGGAGGA	GCATTTCTTT	17340
TTATCAACGA	AAATCAAATA	GCAAACTATG	AAACTAGCCT	CAGGTTAACT	GTGAGATTAT	17400
AGGTAGAGAG	GTTGTATCAG	CAATATGTGT	CTGTCAAATT	TAGTGACAAA	GGTAGTAGAA	17460
GAAAGATAAA	GAAATAAATC	AGCTTCAGTA	GGTATCTGGA	AAATTTGATT	TTATAGAGAA	17520
GCCTTTTGTT	ACAAACTCAA	TATACTATCA	ATAAATAATA	TTATAGAAGC	AACAATAATT	17580
ATAATTTCAC	CTATCTGCAT	CATTCTATTT	CGAACTCTAA	ATATATGTTC	TATCAAAAAT	17640
ACTTGGAACA	CACACATTAT	AGGAATTAAC	GTTTTTGAAA	TTGAAAAATA	TCCAAATAAA	17700
ТАААСТАТАА	ACAACAAAAA	TAGAACTATG	TTATATTTCT	TATTCAAAAC	ATTCCTCCCT	17760
ATATATTTT	GATTACCAAT	CTTAATCATT	TACAACTACA	TTCTAACAAA	CTATAAAAGC	17820
GTTTGTCGAA	TTGAATTTAT	CAAGCAAGCG	ACCAACCAGT	TCATCTTTTT	TCTATTTCTG	17880
CCAATATGCG	TGACAGGTAA	TAATGATAGC	CAAAAATAGC	AAGAGCAAGC	AAGACGATAA	17940
GAGCTCCTAC	TCCCAAGCTG	ATGGCAAGGA	TAGGGGAGAG	AGACTGAACC	AAGAATATGC	18000
TCCCAATTAC	AAGGCCATC	AGGATTGCAC	AAATAAA	CAATAAAACT	ATGGCGACTA	18060
TGCCATTTGA	ACGATTCACC	AGGTCCGTAA	TGCTACTCCA	ATTGGTTGAC	AGATTTTTAA	1.8120
CGTCCTTAAA	GTAATGGTGG	CAAGAAAGGA	TGACACTGGC	AATGATCCAG	ACTACAAGAA	18180
GGTAAATCAT	CGAAATGATG	GGCAAGCCTA	GATATAGAGA	AAGACCAAGC	AAAGTCAGAA	18240
CTGGTAAAAA	GGACTGGACA	GCATATATAA	TCCAAAATTT	CACTTTCACA	TAACGAGCAA	18300
AGTCAAAGGG	TAAACTCTTA	AGAAAATCAA	CATTTTCCCT	CTCCAAGGAC	AAGGCAATTG	18360
AATGCAGGCT	GGTGATATTG	TTATTGACAA	CTGCTATAAA	GAGAGCTATA	AAAAACAAGG	18420
GTAACCAGTA	TGGAGGATGA	ATGTCTGGAA	CTATCTGAGA	ATCTCGGATT	TTGGAAATCA	18480

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GACCGATCAT	CATGAGATAA	GGAAGGAAAG	CACTTGTAAA	AAGCACTGTA	ATCAGGCCAG	18540
TCCCCTGTCC	CAAGAGGGTG	AGGTGGTAGC	GTAAAACCAT	GCGAAAAAAT	CCCTTTTTAG	18600
TGGTTGAAAT	TCTCTCCTTG	CTGCGACGTT	CTTTTTTGAC	CTTCTCCTCA	CTATTAAGCA	18660
GGATCACGTC	ATAAAAACGA	GGAAGGACCT	TCTTTTTGGT	CAGATAAAGC	AGGAAGAGAG	18720
TTAGTCCTAT	CCAAGCGAGC	AGACCCACTA	AGGCTTCTGT	CGAAAAAGGC	TCCACTGCTA	18780
TTTTGTAAAA	GATATGAAGA	GGATAAAGGA	GAAATGGAAT	GTCTCTAACT	TTGTCAACAA	18840
TACTTCCAAA	AGTCGACTGA	AGAAAGAAGA	ТАААТАТТАА	AGGTATGAGA	ACTCCTATCC	18900
CAATCATCAC	ATTCGAAAAA	ATAGACTGAT	ACTITCTGAA	GACCCTAGTT	TGAGCCAAGA	18960
AATGCACTGC,	CACTACCATC	ACTAGAGCCA	CAGAGACAAA	TAATAAGGTC	AAGGACAGTA	19020
GCATCAAAGG	CAAACCCAGC	CATAGAGAAG	GAGCTAGCCT	AATGTAGAGG	ACCAGAAAAT	19080
AAGCTAGGAT	TGGTACAATT	CCAGTTAGAG	CTGGCAAAAG	GACAGACAGT	CCTTTAGCAA	19140
TTATAATCTC	TGATTCTTTA	AAGGCATAGG	GCCTATACGA	TACCAAATCC	TTACTCTCAT	19200
AAAAGACATT	GTAAAAGGCC	GTTAAAGAAG	TTGAAAAGGC	AATCACTAGT	AAAATAGCAA	19260
TCATCGAGCT	AAAATAAATA	GGTATTTCCT	CAAAAGGAAA	ATGAATGGCT	АТАТТАСТАА	19320
AACAGATGAT	CATCAAGAGA	CTGGAAAAA	TGTAAGAACT	TAAGACTCTA	GCGGAAACAT	19380
TTACTTTTTT						19390

#### (2) INFORMATION FOR SEQ ID NO: 87:

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 18436 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double
   (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 87:

CCGAGCGTCG	TTACAGACTT	TATCAAGATT	GGACGCAAGA	AGAAATTCAA	CATATAAAGG	60
AAAATATGGC	ACAATCTCCA	TGGCATACTC	ATTACCATGT	TGAGCCAAAA	ACAGGACTTC	120
TCAACGACCC	AAATGGCTTT	TCTTACTTTG	ATGGCAAGTG	GATCCTCTTT	TACCAGAATT	180
TTCCTTTTGG	TGCAGCCCAC	GGTTTAAAAT	CTTGGGCACA	GCTAGAAAGT	GATGATTTGA	240
TTCACTTTAA	AGAAACTGGA	ATCAAAGTTT	TACCAGATAC	TCCATTAGAT	AGCCACGGTG	300
CCTACTCTGG	TTCTGCCATG	CAATTTGGCG	ATAACTTATT	CCTATTTTAT	ACAGGAAATG	360
TTCGCGATAA	AAACTGGATC	CGTCACCCAT	ACCAGATCGG	TGCTTTGATG	GACAAGGAGG	420

			694			
GTAAGATTAC	AAAGATTGAC	AAGATCTTGA		AGCAGACTCT	ACTGACCACT	480
TCCGCGATCC	ACAAATTTTT	AACTTTCAGG	GTCAATATTA	TGCCATTGTC	GGCGGACAAG	540
ACTTGGAGAA	AAAAGGTTTC	GTTCGTCTCT	ACAAGGCTGT	CAATAACGAC	TACACAAACT	600
GGCAAGCAGT	TGGCGACCTT	GACTTTGCTA	ACGACCGTAC	TGCCTACATG	ATGGAATGTC	660
CTAATTTGGT	CTTTGTAGAG	GAACAACCTG	TCCTTCTCTA	CTGTCCACAA	GGATTGGATA	720
AGAAAGTTCT	AGACTACGAT	AATATCTTTC	CAAATATGTA	TAAGATCGGG	GCTTCCTTTG	780
ACCCTAAAAA	TGCCAAAATG	GTAGATGTGT	CTCAACTTCA	AAACATGGAT	TACGGTTTCG	840
AAGCCTATGC	AACTCAAGCC	TTCAACGCTC	CTGATGGGCG	TGCTCTAGCA	GTTAGCTGGC	900
TTGGTTTGCC	AGATGTTTCT	TACCCATCTG	ACCGTTTTGA	CCACCAAGGA	ACCTTCTCTT	960
TGGTCAAGGA	ACTCACTATC	AAAGACGACA	AGCTCTACCA	GTATCCAGTC	GCTGCTATTA	1020
AGGACCTTCG	TGCTTCTGAA	GAAGCCTTCT	CAAACCGTTC	CCAAACCAAG	AACACTTACG	1080
AACTTGAACT	CAACTTGGAA	GCTAATAGCC	AGAGCGAGAT	TGTCTTACTT	GCTGATAAAG	1140
AAGGTAAGGG	ACTTTCAATC	AACTTTGACC	TTGTAAACGG	TCAAGTAACA	GTGGATCGTA	1200
GCCAGGCTGG	AGAACAGTAT	GCCCAAGAAT	TTGGGACAAC	TCGTTCTTGC	CCTATCGAGA	1260
ATCAGGCTAC	TACTGCTACA	ATCTTCATCG	ATAACTCTGT	CTTTGAAATT	TTCATCAATA	1320
AAGGAGAAAA	AGTATTTTCT	GGTCGTGTCT	TCCCACATGC	GGACCAAAAT	GGTATCCTGA	1380
TTAAATCTGG	AAACCCAACT	GGAACTTACT	ATGAATTAGA	TTATGGTCGC	AAAACTAACT	1440
GATGTCGCCA	AACTTGCAGG	CGTCAGTCCT	ACTACCGTTT	CTCGGGTTAT	СААТАААААА	1500
GGGTATCTAT	CTGAGAAAAC	CATCCAAAAA	GTCAATGAAG	CCATGCGAGA	ATTGGGCTAT	1560
AAACCCAACA	ACCTGGCTCG	TAGTCTGCAA	GGAAAATCAG	CTAAGTTAAT	CGGCTTGATT	1620
TTCCCCAATA	TTTCCAATGT	TTTCTATGCA	GAATTGATTG	ATAAATTGGA	ACACCAACTC	1680
TTCAAAAATG	GTTACAAGAC	CATCATCTGC	AACAGTGAAC	ATGATTCTGA	GAAGGAACGC	1740
GAATACATCG	AAATGTTGGA	AGCCAATCAG	GTGGACGGCA	TCATTTCTGG	TAGTCACAAC	1800
CTAGGAATCG	AAGACTACAA	TCGTGTGACA	GCGCCGATTA	TTTCCTTTGA	CCGAAACCTA	. 1860
TCGCCAGACA	TCCCTGTCGT	CTCCTCTGAC	AACTATGCTG	GTGGGGTTCT	TGCTGCCCAA	1920
ACCTTGGTCA	AGACAGGTGC	CCAGTCTATC	ATCATGATTA	CAGGGAATGA	CAATTCTAAT	1980
TCGCCAACCG	GACTGCGCCA	CGCTGGTTTT	GCATCCGTAC	TCCCAAAAGC	TCCTATTATC	2040
AATGTTTCCA	GTGACTTTTC	TCCCGTCAGA	AAAGAAATGG	AAATCAAGAA	TATCTTGACC	2100
CGGGAAAAAC	CAGATGCCAT	TTTTGCTTCG	GATGATTTGA	CAGCTATTCT	GGTCATTAAA	2160
ATCGCTCAAG	AATTGGGCAT	TTCTGTCCCA	AAAGAGCTCA	AGGTCATCGG	CTATGATGGG	2220

ACCTACTTTA	TCGAAAATTA	CTACCCTCAA	TTGGCTACTA	TCAAGCAACC	TTTGGAAGAG	2280
ATTGCTTGTC	TCACTATTGA	TCTTCTCTTG	CAAAAGATTG	AAGGCAAGGA	AGTCGCCACA	2340
ACTGGTTACT	TCTTACCAGT	TACGCTATTA	CCAGGAAAAA	GTATTTAAAC	ACAAGAAAAC	2400
TCAGACCGAT	TCGTCTGAGT	TTTTATGATC	TTAAATTTTC	GAGATAGCGC	TGGGCTGTCT	2460
CTAGGTTAAA	GGTTTTATCT	GAGATGAGGC	GCTCTACTAG	GGGAGCAACT	TCAGATTCAC	2520
TAGCCCCAGC	TAGGAGAGCT	AGGGATTTGG	CCTGTAGTTT	CATGTGGCCT	TGCTGGATGC	2580
CCGTACTTAC	CAAGGCTTTG	AGGGCTGCAA	AATTTTGAGC	AAGACCGATG	GACACGATAA	2640
TCTGGGCTAA	TTCTCTGGCA	GAAGGATTTC	CTAGTAGATC	ATGACTGAGA	ACTACACGTG	2700
GGTTGAGGCC	GATAGAGCCA	CCCTTAGTCG	CTACAGGCAT	GGGCAGGGTC	ATCTCACCGA	2760
CCAATTCTTC	TCTTTCAAGG	TCCAGCGTCC	AGCAGCTAAG	ACCTTGATAG	CGTCCATCTC	2820
GACTGGCAAA	GGCATGGGCC	CCAGCTTCGA	TGGCACGCCA	GTCATTACCA	GTGGCAATCA	2880
AAATCGCATC	AATACCATTA	AAAATTCCTT	TATTATGAGT	AGCAGCTCGG	TAAGGATCAG	2940
CCTGCGCAAA	CTGACTAGCC	AACGCAATTT	TCTCCGCAAT	CTCTCGTCCT	TGATCCTTTT	3000
GGCGGCTCAA	GTAGCGAAAG	GCGATGCGAC	AGCTTGCAGT	CACCAGAGAA	TCGGTCGCGT	3060
AGTTGGACAG	GATTCCCATG	AGACTCTGTC	CCTGACTGAG	TTCTTCTAAG	ACTGGTTTCA	3120
AGGCTTCCAG	CATGGTGTTG	AGCATATTGG	CACCCATGGC	TTCCTGGGTA	TCGACATGAA	3180
TATAAACAAC	GAGAAAGTCT	GGTTCGCCTT	TTATCTGCTC	GACATGCAGA	TCACGCGCCC	3240
CACCTCCACG	TTTAACGATA	GAAGGATAGG	CTTGATTGGC	AAGCTCCAAG	AGCTCCGCTT	3300
TCTTGCTGGC	AATCTTCTCT	TGCGCTAGTT	TAGGATTAGC	AACTTGATAA	AGGGCTACCT	3360
GCCCAATCAT	CTGTCGCTGA	TGGACTTGTG	CAGTAAAACC	ACCTGCACGC	TTGATGATTT	3420
TGCTGGCATA	GCTGGCCGCC	GCAACCACAG	AGGGTTCTTC	TGTCACATAG	GGAACGGTGT	3480
ATTCCTGACC	GTTGACAAGT	ACCTCCGGAA	CCAGTGAATA	AGGCAGAGAA	AAAGTTCCCA	3540
CTACATTCTC	ACTCAGCTGG	TCTGCCACAG	TCACGCTCAT	CTGTTCATCC	TTCTCCAGAC	3600
TAGCTTGTCT	CTCAGGACTA	AGGAGCGCCT	GAGCTTTTAA	CAGCTCGAGG	CGCTCTTGGT	3660
ATGATTTTTT	AGAAAATCCA	TTCCAACTTA	TCTTCATTAT	TTTTCAACCT	TGCTATAACG	3720
GCGTTGGTGG	TCGAGAATTT	CAACCAAGGC	AAAATCTTGA	TTTTCATAGC	CAGCAAACTG	3780
GGCAGAGTTA	GTTTCATCCA	AGTTTACTTC	CTCAAAAAAG	ACCTTTTCAT	AGTCTGCAAC	3840
GGATAGGGCA	GTTCGTTGGT	TGAGCTTGTT	CAAACGGTCT	TTATCCAAAT	AAGCTTCATA	3900
TCCTTCAACC	AATTCACCAC	TGAAGAACTC	AGCCACAGCT	CCACTTCCGT	AACTATAAAG	3960

696 GGCGATTTTA TCCCCAGCTT TCAAGCTATC TGTATTTTCC AAGAGAGACA AAAGTCCAAG 4020 GAAAAGTGAA CCTGTGTAGA TATTCCCCAC CTTTTGACTG TAGAGAATAG ACTGGTCAAA 4080 ATGCTTTTGT AAGAGGTCTT TTTTCTCTTG AGGCAGGCTC TTATCCATGA TTTTTTTCAA 4140 GCCTTTTAGC GCTAATTTAG GATAAGGCAA GTGGAAACAA ACAGCCGCAA AATCATCCAA 4200 AGTAAGCTGG TAGCGTTTTT GATATTCAAG CCAAGTCGTT TTCAAACTAT CCAAGTATTG 4260 TTGGGTAGAA TAGACACCAT TTACATAAGG AGTTGTCGAG TAATTTGGTC GCCAGAAATC 4320 CATGATGTCA CGGGTCTGAG CTACATTGTC ATTATTAAAG GCCATCATGC GTGGATTTTG 4380 TGTAATCAAC ATAGCTACAC TTCCAGCACC TTGAGTTGGT TCTCCTGGAG TTTCAATACC 4440 GTATTTGGCA ATATCACTGG CAATGACCAA GACCTTGGAC TCCGGAGAAT TTTCCACATG 4500 CAATTTGGCA TAATGGAGGG CAGCAGTCGC TCCGTAGCAG GCTTCTTTAA TCTCGAAACT 4560 ACGAGCAAAG GGCTGGATGC CCAGCAAGCC ATGCACAAAG ACGGCCGCAG CCTTACTCTG 4620 GTCAATTCCT GACTCGGTCG CCACAATGAC CATGTCAACT TCTTGTCTTT CTTGCTCAGT 4680 TAAAATAGAG TCACTAGCAC TGGCCGCCAA GGTCACGATA TCCTCAGTTA GGGGCGCAAT 4740 ACTCAATTCC TTGAGTAAGA GTCCTTTACT TAATTTTTCA GGGTCAATTC CCCTCGCTTC 4800 TGCTAAGTCT TGTAATTTCA AGACATATTG ACTGGTCGCA AAACCAATCT TATCAATACC 4860 GATTGTCATA TTTACCTCTG TTTTATCATT CATGTAAAAA ATCGTTCTAT ACTATTTTAT 4920 CACAAATGGC AGTAAAAGAG AGAAAAAAGA CTTGATTCAC CAAATCAAGC CTCTTATTGG 4980 TCATCATTTT AAAGAATGAT TAGTTGCTAG AGAGTTCACC GATATAAGTA GCTTTATAAG 5040 CTCCATTCAC AGTTATCAGC TCCTGGAGGA TCAAATTTCC TGAGTAAGTC CTTCCCATCT 5100 CATCTACAAA TTTTTGATAA AACTGACTGG TCGGAATTTC TCTGACATCC TTATCAAATG 5160 TCTTATCAAG TGTTTTACTA ACCTTCTCAG CAATCAATTG ATGCTCTTGC CATCCACTTT 5220 GAAACTCTGA GCCCGAACTA GAAACCATGA CTGGGATAAA CAACAAGGTC AGTAGATTTA 5280 CAGACAATAA GGAAAGTAGT AGACTTCCTG CAAAACTAGA ATCCTAGTTC ATGATTGATA 5340 ATACCAGCAA TCAAATTCAT TCGTAATCCG AAGCGTTTAC GATGATTTCG ATAGGTTGTT 5400 GAAAACATTT TAAACGTTTT TACTTTGGCA AAGATGTTCT CAACCTTGCT TCTCTCCTTA 5460 GATAGCGCAT GGTTACAGGC TTTATCTTCA GCTGTTAGCG GCTTGAGTTT GCTGGATTTA 5520 CGTGGAGTTT GTGCTTGAGG ATATATCTTC ATGAGCCCTT GATAATCACT GTCAGCCAAG 5580 ATTTTACCAG CTTGTCCGAT ATTTCTGCAA CTCATTTTGA ACAACTTCAT ATCATGACTA 5640 TAGTTCACAG CGATATCCAA AGAAACAATT CTCCCTTGAC TTGTGACAAT CGCTTGAGCC 5700 TTCATAGCGT GAAATTTCTT TTTACCAGAA TCATTCGCTA ATTGTTTTTT AGGGCGATTG 5760

ATTTTTACTT	CCGTCACATC	AATCATTATC	GTGTCCTCAA	AGCTGAGAGG	AGTTCTTGAA	5820
ATCGTAACAC	CACTTTGAAC	AAGAGTTACT	TCAACCCATT	GGCTCCGACG	GATTAAGTTG	5880
CTTTCGTGGA	TACCAAAATC	AGCCGCAATT	TCTTCATAAG	TGCGGTATTC	TCGCACATAT	5940
AGAAAGCGTT	ATCAATTTAT	TTATCTCATT	TTTCAGAAAA	TTCTTTTATT	TCTGTAAAGT	6000
CTACGATACT	CGATGTGTTT	TTATATAATG	ATAGAGTCTG	AGAATCACTG	TTCCGCTAGC	6060
CATTCCAATA	GAGATTACCA	AAGCCAACAT	GACAACCAAG	GTCGCACTTG	CCAGTGCTTT	6120
ATTATAGTCC	CCTGTCACAA	AAAAGGCAGT	TGTTCGGTAG	GAGAGATAAC	CTGGAACCAG	6180
CGGTGCCAAA	ATGGCCAAGA	TAAAGACCAC	AGCAGGTGTC	TTATAAAGAA	ТАСТТААААТ	6240
CTGGCTGACA	CAAGAACCAA	TAATGGCTGC	AATGAAGGTA	GCTACAATGA	CATTGGTCGG	6300
TTCCTTGAGC	AAGAGATAGA	TTAGCCAGAC	AGTCATGCCC	AAAATCCCTC	CAGGTAAGAG	6360
CATAGACCGT	TGCACATTGA	GTACGATTAA	AAAAGTGATA	ATGGCAAGAA	AACTTGCTAC	6420
TGCTTGTAAT	AAAAAGGTTG	TTAGTGTCAT	ATTAGTTCAT	CAATACCAAG	GCGACAGAAG	6480
TTCCTGCCCC	TAAAGCGAGG	GTAATGAGCA	GGGATTCAAA	CATCTTACTC	ATACCAGAGT	6540
TTATGTGGTT	GGTCATAATA	TCACGGACCG	CATTGGTCAA	GGCAATACCT	GGTACAAACG	6600
GCATGACCGC	ACCAGCTATA	ATCAAATCTG	CCGTTGAAGG	AAAACCTGTG	TAGCGAGCCC	6660
AAAACTGGGC	AATTATCCCA	AAGACAAAGG	CTCCAGCAAA	GGCTGTCACA	AAGGGAATTC	6720
GGATAAATTT	TTCCACATAG	AGGGAAAAGG	CAAAACCAAA	TAAGGTCGCC	ACTCCTGCCC	6780
CAAGTGCGTC	GTAGATATTT	CCGCTAAACA	TAACTGAAAA	GAAAGGAGCA	CTAAAGGTCG	6840
CAGCCAGAGT	TACCTGCAAC	TTAGTATAGG	GAAGGGGTTT	GGCTTGCAAG	GCCGTCAATT	6900
GCTTAAAGGC	TGTTTCTAAG	TCAATCTGCC	CCCCAACTAG	CTGACGAGAA	ATCTGGTTCA	6960
CATCGCAGAC	TTTTTCGATG	TTATAAGAAG	AGGAGGTCAC	GCGCTTCATG	CGCAAATATT	7020
GGTATTTTCA	ATAGAGAAAA	AGATAGCGGC	AGGCATGGCA	AGGACATTGC	AATCCACAAT	7080
CCCCTGCGAA	TGCGCGATTC	GAATCATGGT	ATCTTCTACA	CGATGGATTT	CTGAGCCACT	7140
TTTAAGGAGA	ATAGTCCCCG	CTAGCATAAT	CACATCAATG	ACGGCATTTA	ATTCTTTTGA	7200
TTCTTCCATG	CTTTCCTCCT	TTTATCAACT	CCCTCTATTC	TATCACAAAT	CCGGACTCAA	7260
AAAAAATCTT	TGCCATGAAA	TCATGACAAA	GATTGATTAC	TCATTTTGAT	TATCCATCTG	7320
CTTTTAAGGA	GTAGCTGAAG	TTGTTTTAGG	TTTGTAGATT	GAAATCTTGA	CTCTAGTCTT	7380
ATTGAGGTCT	ACCTTTTCAC	CTGCTCTAGG	ACTTTGTTCA	ACAACCATGC	CTTCTGCACT	7440
ACCTGCAGGC	GCTGTCGTCA	CTTCTACAAC	TTCTATATTA	GCTTCCTTAA	TCCCAACAAT	7500

TTGAATCAAA TTGTTCTTAG TAAACTCCAA GCTAGAACCA ATGTAACTCG GCATGGCAAC 7560 ACTTGTAACT TTTTTAGCTA CTGTCAAGAC AATTTGAGTA GGTTTACTCA CATCATAAGT 7620 CGTTCCGGCA CCTGGACTTT GTTTCATAAT CGTTCCTGGT TCGCTTTCGC TGGACTCTTC 7680 TTCCTCTATC TTAATCAAAT TCTCAGGAAC CTTCTTCTGC TTGAGTTCTG AGATTACTTC 7740 TGTAGAGTTC CGTCCAATAT AGTTCCCTAA TTGAATCGTC GTAGCTTTTT TAGCTACTGT 7800 CAAAACAATT TGAGTTGCCT TGCTCAAGTC ATAGGTCGTA CCTTCTGGTA GACTTTGCTT 7860 CAGGACCGTT CCAGCCTCAC TCTCATTCGA CTCTTCTTCC TCAATTTTAA TCAAATTATC 7920 TGGAACTTTT TTCTCTTTTA ATTCCGCAAT GACATCAGAG GATTTCCGAC CGACATAATT 7980 ACTAATTTGG AAAGATTGCT TGCCTGATGA GACAACCAAA TTGATTTTCG TTCCTTCTTT 8040 TCGACCAGTT CCAGCGCCAG GATCTGTACG GATAATCCGC CCTTCTTCCA CCTTTTCACT 8100 AGCCTCTGTC TTCTCCTCAC CAATCTCAAA ATTGGCTTTT TTGAGCGTTG CCTTGGCCTC 8160 TGCAACTGTC TGACCTGCCA CATCTGGAAT GGCAATGGTT GCAGGAGTTC TGGATAGTAT 8220 CCAAATAAGA GAAGCTGCCA CCAATACAAG GCTGGCCAAC AAAATCAGGT AACGCATCTT 8280 AAATCTATGT TTTTTCGGTG CTTGTGGTTG GTAAGTTTCC TCTGTCACAG CCTGGCTTGG 8340 GTTTTGATT GATTTGTGTT CTGTTTGCGC TTGAACCTTA GGAATAGATG TCAAGGTACT 8400 CTGAGAAACC TTCGGCAAGG TCTTGGTATC TGCCTTGCTC GTTTCATCAA AGATTAACTT 8460 ACTITICATIT CTACGATTGT AGGACAAGCT ACTAGACAAG TCCACATACA TCTCTGAAAC 8520 CGAGCGGTAG CGATTGGTCA ACTTTTTAGC AGTTGCCTTG ATAATAACAT TTTCTAAAGC 8580 CTGAGGTACA GATGGATTTT CTGCAATAAC GGACGGCAGG GGTTTCTGGA AATGCTGGAG 8640 GGCAATGGTC ACCGCGCTAT CCCCGTCATA AGGGATATGG CCTGTCAGCA TCTCATAGAA 8700 AATAATCCCC ATGGCATAGA TATCACTCTG CACAGTCGCC TTCGAACCAC GCGCCTGCTC 8760 TGGTGACAAG TAATGAACTG AGCCCAACAT CGAGTTAGTC TGGGTCAGAC TTGTCTCTGC 8820 AAAGGCTACA GCAATCCCAA AGTCTGTGAC CTTGGCAGTC CCATCTGGTG TCAAGAGGAT 8880 ATTTTGAGGT TTCAAGTCCC TGTGAACAAT TCCTCGAGTA TGGGCCAAGC GCATAGCCAA 8940 GAGAATTTGT CCCATGATAC GGACTGCTTC TTCATTAGAA AGAGGATAAT GTTCCTTGAT 9000 ATAGCGTTTG AGGTCCAGTC CAGCCACATA CTCCATAGCT AGGTACTGTT GACCGTCTTC 9060 CTCGCCAATA TCTGTTATCC GAACGATATG AGGATGGTCT AGATCTGCCA TAGCTCTCGC 9120 TTCACGCTGA AAACGAGCTA CAGCTATCGG GTCCGTCTGG TAGTTGGTCC TCAGAACCTT 9180 CACTGCCACT TCTTCCCCAT CTAAGATTAA GTCTTTGGCT AGGTAGACAT CCGCCATACC 9240 TCCTCGACCA ATCTGTTTGA CAATCCGATA GCGTCCGGCA AAAATCTTGC CGATTTGGAT 9300

CATTCTGCAT	CCTCCTCGTT	CATAGAAACA	AGGGCAACCG	TAATGTTGTC	TAAACCTCCT	9360
GCATTGTTAG	CAAAACGAAC	AAGTGTCTCC	GTTTTATCTG	CTAAAGGAAT	ATCACTGGTT	9420
ACAATATCAC	GAATCTCACT	GCCTGAAATC	ATGTTGGTCA	AGCCGTCACT	ATTGAGCAAG	9480
AGATAGTCAC	CTGACTCAAG	GATAACTGTC	CCAAAATCAG	GCTGAATTTC	ATCTTTTTGC	9540
CCAATAGACT	GGGTGATAAT	ATTTTTTGC	GGATGAGCTT	CTGCCTCTTC	TGGTGTCAAT	9600
TGACCAGCCT	TGAGCAATTC	ATTAACCAAG	GAATGATCGC	TCGTCAACTG	ATGGTATTCT	9660
TCTCCACGAA	TCAAGCCGAT	ACGCGAATCA	CCAATATGAG	CATAGATAGC	CTGATTATCA	9720
ATAATAGCAA	GGACTTCCAA	AGTAGTTCCC	ATGCCTCTGT	AAGCTTCATC	CTGACCAAGC	9780
TGGTGAATCT	TTTGATTTTC	AATTTCTAGG	TAATGGGCGA	ACCATTCACG	CACTTCATTG	9840
ACTGTATCGA	TCTGGGTATC	AACCCAAGCT	ACACCCAGGT	CTGTGACCGC	CATTTCACTA	9900
GCGATATTCC	CTGCGCGATG	ACCTCCCATC	CCATCAGCTA	АААТААТСАТ	GGTACGTCCA	9960
GCTCTATTGA	CATAGTGGTT	GACATAGTCT	TGGTTATTTG	TTCGTTTCTG	ACCAACATCT	10020
GTTAATAATG	AAATTTCCAT	GTGTCAGTTC	CTTCCTAATC	CGATATCTTG	CGAAATTGAC	10080
TGATGAAGAA	TCCATCACTT	CCATACAATT	CAGGTGTAAT	GAGGATACAG	CCGTCTTTCA	10140
TGATATCCTT	ACATTCATGT	TCTAGTTTTA	CCTGCTCGAA	CTCGGGATGA	СТСТСТАВАВ	10200
AGGCCTTAAC	Gacttgaaaa	TTCTCCTCTG	AGACGATAGT	GCAGGTGCTA	TAAGTTATTA	10260
TACCACCTTT	GCCTAGTATT	TGACAAACAC	TACCTAATAT	TTCTAACTGA	ATTTCCTGCA	10320
AGGACGCGAA	ATCTGCCGTT	TCTTTATTGT	ATTTGATATC	TGGTTTTCGG	CGCAAAAGAC	10380
CGATTCCTGA	ACAAGGAGCA	TCCACCAAAA	TCTTATCAAA	GGAATCCTGG	TCAAAAAACT	10440
CATGCACCTT	TCTGGCATCC	AATTTTTGAG	TTTGAACCCG	ATCTTCAACT	CCCAGACGTT	10500
GGGCATTTTC	TTGAATTAAA	TCCAACTTGT	GGTCGTACAA	GTCCAGAGCA	GTAACCTGAC	10560
CTGTCGTAAG	ATAAGAGGCT	ATATGGGCTG	TTTTCCCACC	TGGAGCCGCA	CAGGCATCAA	10620
GCACTCGCTC	ATCACCTTGT	AAATCAAGCG	TCGGAGCAAC	CAGCTGACTG	GACTCATCTT	10680
GGATGGTAAT	GGCTCCATCC	GCAAACAAAT	TATGCCCTGC	AAAATGCCCC	TGCTCCTTAA	10740
CCAGACCAGT	GGTTGCTAAA	AGGGAATTAT	TCGCCTCCAA	CAAGGCTTGG	ATTTCCTCTT	10800
TTCGACTTAG	GTCTGTTACA	CGAATACTGG	CTTTGTTTCG	CACTAACAGG	CTTTCAAAGA	10860
TGGCTTTTGC	TCTCTCCTCT	CCGTATTCTT	CCTTGAGTTT	GGCAACTAGC	CAAACTGGGA	10920
GAGAATAGGC	AATGGAGTCA	CGCTTGTTTT	TTCGCTTGAT	GCTAGCAATA	TCTGGCCAGC	10980
CTTCACGCAA	GATACGGCGA	AGGACAGCGT	TGACCAATTT	TTCACTGCCT	TTTTTACGGA	11040

			700			
GTTTGGCCAA	TTCCACTGCT	TCATTAACCA	CAGCATGATC	TGGAATCTTG	TCCAAATAGC	11100
GGAGTTGGTA	GGCACTCATG	AGAAGAAGGA	CATAGAGCCA	GCTGTCTAAC	TGGTCTCTGT	1116
CTTCGATAAA	GTGGGATAGG	TACCATTCCA	GAGTCAGTTT	ACGGGCTACC	GTTCCATAGA	11220
CCAGCTCGGT	CACTAAGCCC	TTGTCTGCTG	CCAAAAGTTG	ACTTCCCTTT	AGATGCTTAT	11280
TTAAGGCGAT	ATTTGAATAT	GCTTGGTTCA	CAAAAACATC	CTCTAGCACT	GCTAGAGCTA	11340
AACTTCTAGC	CGTTTCTACT	TTAGTCACCA	AATCGTTCTC	CTACAGTCAA	TGTACGTCCA	11400
ACTCCGTTGA	GGAAGGAAGC	AATGTCCATC	TTAGGCTTAC	CAGCTGGCTG	CACTTGTTTG	11460
agggatagag	CCCCTTCAGC	CGTTGCGACA	ATCAATTCTT	TCTTGCCGAT	AGAGAGAATC	11520
TCACCTGGAT	TTCCCTGACC	TTCTACTGGT	AGGGCTTCAT	AAATCTTAAA	GCGGTCGCCC	11580
TTAAGGAAAG	TATGGGCAAC	AGGCCAGGGG	TTCATTCCAC	GAATTTGGTT	AAAGAGTTGA	11640
CGATTGGTTT	TGTTCCAGTC	CAGTTTTTCT	TCCTCTGGCT	TTATATTTGG	AGAGAAGGTA	11700
ACCTGACTCG	TATCCTGCGG	TTCAGGTTTG	ATATCACCAG	CAATATAGGC	AGGCAGAGTG	11760
TCCAAAAGCA	AATCACGACC	AACTAGCGCC	AATTTTTCAA	ACAAGGTGCC	AACATTGTCC	11820
TCATCTGTGA	TCGGAATGCT	GCGACGAGAA	ATCATATCTC	CTGCATCCAT	TTCCTTAACC	11880
ATTTCCATGA	TGGTCACACC	AGCTTCCTCA	TCCCCTTGAA	TCAAGGCATA	ATGGATAGGC	11940
GCACCACCAC	GGTGTCTAGG	AAGGAGGGAG	GCATGAACGT	TGACAGCAAA	GTCCATGCTA	12000
TCAAGGAGTT	TGCTTGGGAG	AAACTGCCCA	AAAGCAGCAG	TCACAATTCC	ATCTGCTCCT	12060
AGCTTCATAA	GATCTTCCAT	CTCTGGACTT	CCAGATAATT	TTTCAGGTTG	GTAGATAGAT	12120
AGTCCTGCTT	CCTTGGCAGC	CTGCTTGACT	GGGGTTTCTT	GGATAACTTT	TTTACGACCA	12180
ACAGCACGGT	CTGGCTGGGT	CACAACGGCT	AGAATTTCGT	AACGGTCATC	TGTCAAAAGT	12240
CCTTTTAAGA	CTGTTGCTGA	AAAGTCGGGG	GTCCCCATAA	AGATTAGTTT	TGTCATATCT	12300
TCTCCTTCTT	ATAAAAATTG	CTGCGGCTCA	TGGTCAATGC	TGAGACGGAG	CTCACTATTT	12360
TCCCGTTCTT	GAGTCAAGGC	TAAAACCTGG	TTGAGGGTCG	ACCCCAGCTC	АТСТТСТАЛА	12420
CGGTATTTAA	TTAAAATCTG	GTAATGATAG	AGGTTGTGGG	TACGGGCAAT	CGGTTTTGGC	12480
GTTGGCCCCA	GAATGGGACT	GGTCTCTGAC	AAGCCTGACC	GCAAAATGTT	CATGACTTCA	12540
PAGGCACGTT	TGAAAACCTC	TTCTTCTTTC	TTGTGAGAAA	GGGTAATACC	AATCGTGAAA	12600
TAGTAAGGTG	GATAGCCGAG	TTGTCGTCTG	ATTCCCATTT	CATAGGCATA	AAAGCCTTCG	12660
PAATCTTGAT	CCTTGGCAAA	TCGAATAGCA	TAGTGCTGCG	GATTGTAGGA	CTGTATCAAG	12720
ACTTGACCTG	CCTTTTCAGC	CCGACCTGAT	CGACCTGCCA	CCTGAGTCAA	GAGCTGGAAG	12780
STTCTCTCAG	AAGAACGGAA	ATCAGGCAGA	TTCAAGGCCG	TATCCGCATT	TAGAACTCCG	12840

ACTAGGGTAA	CATTGGGAAA	ATCCAAACCC	TTTGCÄATCA	TCTGAGTACC	AAGTAAAATA	12900
TCCGCTTCCC	CTCGCCCAAA	CTGGTCAAGC	AAGGCTTGGT	GACTGCCTTT	CTTTCGAGTC	12960
GTATCCACAT	CCATCCTCAG	AATGCGAGCT	TGGGGAAAGA	GTTCTGCTAG	CTCATCATAA	13020
GCCTTCTGAG	TTCCCGTCCC	ATAGTAACGA	ATACTGCGGC	TCTTACAGTT	AGGACAGACC	13080
TGAGGAATAT	CCTTCGAGAA	ACCACAATAA	TGGCAGTTCA	TAGTCTTGGT	ATCCATATGC	13140
AAGGTCAGAG	AAATATCGCA	CTTGGGACAA	GTATCCACCG	TCCCACACTC	CCGACACATG	13200
ACAAAGCTAG	AATAACCACG	GCGATTGAGC	ATGAGAACCA	CCTGCTCTTT	TTTAACCAGA	13260
CGGTCTTGGA	TAGCCTCTAG	CAAAGGAGGC	GTAAAGTTTG	ACGTCTCATT	TTGTCCGATA	13320
TAGTCTCGAA	AGTCAATCAC	TTGAACCTCA	GGGATTGTAG	CCAAAGGATT	GGCACGTTGG	13380
GTTAGACGTA	AGTGTTGATA	GACGCCTTTG	CCAGCACGTG	CCCGGCTCTC	TAAGCTCGGC	13440
GTTGCAGATC	CAAGTACCAG	AGTTGCTTGA	TTATACTGAG	CCCGTAAAAT	AGCTACCTCT	13500
CTGGCATGGT	AACGGGGATT	GCTGTCCTGC	TTATAAGCCG	CTTCATGCTC	TTCATCAATA	13560
ATCATGACAC	CCAGATTTTT	CAGAGGAGCA	AAGATAGCAG	ATCTGGCACC	AACAACAACT	13620
TGGGCATCGC	CACGCTCCAC	CTTGCGCCAT	TCATCATACT	TTTCACCATT	GGATAATCCT	13680
GAGTGAAGAA	TGGCTACCTT	GTCCCCAAAA	CGTGCTATAA	AACGCTCGGT	CATCTGAGGA	13740
GTCAAGGAAA	TCTCAGGTAC	CAGCAAAATA	GCTGTCTTGC	CCTTATCCAG	GGCACCTTGG	13800
ATAATCTGCA	AGTAAACCTC	GGTCTTCCCA	CTTCCTGTAA	TCCCTTGAAG	TAGAAAGGGA	13860
GGTTGAGAAC	TGCCAATAGA	ACTCACAACC	GCATCACGCG	CCTGTCTTTG	TTCTGGATTT	13920
AACTCCAAAG	GTCTACTTGC	TTCAATTCCT	TCAAAATAAG	CAGCCGAGCG	TTGAACTTCC	13980
TTTTGGACTA	TGGTAACAGC	ACCTTGATCC	ACAAAGAAGT	TGACTTGCTC	TCGCGAGTAG	14040
GACTCTAACA	AGCTAGCCAA	GGAAGCGCTC	TCTGGATGAG	ACAGCAGATA	ATCTCTCAGT	14100
TCCAACTTTT	TCTTGGCACG	TGTAGAAATC	TCAACACCTT	CTAATTGAGC	ATGGTCAACC	14160
TCATACCAAG	ACTGGGTCTT	GACCTTCTTT	TGATCGACTG	CCTGATATTC	CAGACCAAGC	14220
AGGCCTTTTC	TAGTCAAACG	CATCATTTCA	GCTTGCTTGG	CAAGGTCTAG	TGAAGAAAAG	14280
GCTAGCGAAT	CTTCTGAACC	AAACAGGCGC	ACTCGTTCTT	CCTGACTCAA	GCCTTCCAGA	14340
GGATAGAGAA	TCTTGTCATA	GCTAGAATTC	AGAAACCCTG	GAAGCATGGC	CTTGAGGATA	14400
GAGATTTTGT	AGGAGAAGAC	AGATTTGCGT	AACTCCTCAG	CCAGCCAGAG	TTGTTCTGGC	14460
GTGAGAACAG	GAGAAAAATC	CAGCACCTCT	GCAATATCTT	TTAAATCTTG	CTCCATCTCT	14520
TCTCCATCTG	ATTGGGACTT	CAAACCAAGA	ACAATCCCTT	GAATCAGGCG	ATTACCCTTA	14580

			/02			
CCAAAAGGCA	CATGAACCCG	CATCCCAACT	TCCAGCATTC	CCTCAAATTC	CTCCGGAATC	1464
CTGTAACTAT	AGGGCTGGTC	CGTCTGCATC	AAGGGCACAT	CTACGATAAT	CTTAGCTAGG	1470
GCCATCTTCT	CACCTCCTCC	TTGTCAGTAC	ATTCTTGCAA	TAGAAAAAAT	AAGATTGAGT	1476
CCCCCAACC	TTAAATTTTT	TCACCATCTT	CTTTTTCTTT	AGCAATTTGC	TCTTTGATTT	1482
TCTTTTCTTC	TTCTTCTTTG	CGGCGTTTTT	CTTCTTCGAT	ACGGCGACGC	ACTGCTTCAC	1488
GTTTTCCTTC	TGGATCTGGG	TGAATTGTAA	CGTTTCCTGA	TTCGATTTCT	TCTAAAGCGC	1494
GAAGAGTTGA	TTTTTCAGAC	TTGAAACCTT	GAGTTGCTGG	GGCACCTGCT	TCCAATTCGT	1500
GGGCACGTTT	TGCTTCCAAG	ATTACGAGTG	AATATTTTGA	AGGAACCTTG	TCGAGCAAGG	1506
TATCAATAGA	GGGTTTTAAC	ATCATTTGCT	TGTACCTATT	TTCTAAATTT	TATCGGGTAG	1512
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CTGCTTCAAT	CACACATTTG	ACACGTTCAG	CAGCTAGGGG	TACCTGATCG	TTGACAATCG	1524
САТААТСАТА	CTCACGCATG	AGGGCAATTT	CTTCCTTGGC	CTTTTCGATT	CGTTGGGCAA	1530
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GAGGAGTTCC	ATAGTAGTTA	CCGACATATT	CTGCGTATTC	CAACATCTGT	CCTTGACGAA	1554
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GACGTTGTGC	GCGTGTCGTC	ATCGATACAG	AATATTGAAA	TTGGTTTTCA	GAACTCTCAA	15660
AAATCTCTCT	TCTAACCGTT	CCTTTTCCAA	CCCCTGAAGG	ACCAGAAAAA	ACGATTAGTA	1572
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TAATGGCAAA	AAGCCAGATT	ATCCTTTACA	GTCTTTCTAT	CTAGTGTAAC	AAAAAAGCÁG	15840
TAATTTTTCA	ACTGCTCTTT	CTTATTTATT	TAGCATAATC	TACTGCACGA	AGCTCGCGAA	15900
TCACGGTTAC	CTTGATATTT	CCTGGATAAT	CGAGATTGTT	TTCAATTTTC	TTACGAACTT	15960
TGTGAGCCAA	GATTGTGACT	TTGTCGTCCT	TGATTTTTCC	TGGATTGACC	ATGATACGAA	16020
TTTCACGTCC	TGCTTGAAGG	GCAAAGCTAG	TTTGCACTCC	TTCAAAGCCG	TTAGCAATTT	16080
CTTCCAAATC	ATGGAGACGC	TTGATGTAGC	TTTCAAGAGA	CTCACTACGA	GCACCTGGAC	16140
GGGCTGCGCT	CAAGGCATCT	GCTGCAGCGA	CGATAACTGC	TATCACGCTC	TCAGCTTCAA	16200
CATCTCCGTG	GTGACTAGCA	ATCGTATTCA	CCACAACTGG	GGGTTCCTTG	TACTTACGGG	16260
CCAATTCCAT	ACCGATTTCA	ACGTGGCTAC	CTTCAACCTC	ATGGTCAATG	GCTTTCCCGA	16320
TATCGTGAAG	GAATCCAGCA	CGACGGGCAA	GAGCCGCATT	TTCACCAAGT	TCGCTCGCCA	16380

TGATACCAGC	CAACTTAGCA	ACCTCAATCG	AATGGCGCAA	AACATTTTGT	CCATATGAAG	16440
TACGGAACTG	CAAACGTCCC	ATAATCTTCA	TCAAGTCTGG	ATGAAGGTTT	GGCGCACCAA	16500
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TCTCAACCAA	CTCTTCGATA	CGAGCTGGAT	GTATACGACC	ATCTTTGAGC	AACATTTCCA	16620
TAGTCATACG	GGCAATCTCA	CGACGAATCG	GATCAAATCC	TGACAAGGTC	ACCACTTCTG	16680
GTGTATCGTC	GATAATCACA	TCGACCCCTG	TCAAACTTTC	AAAGGTACGA	ATGTTACGAC	16740
CTTCACGACC	AATAATGCGT	CCCTTCATAG	TATCGTCTGG	CAGATGAACT	GTTGAGTTTG	16800
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CCATTTTGTC	AGAACGTTCC	TTGACCTCTT	GCTCAGCTTC	GCGAATGCGA	CTGGCAATCT	16920
CCCTGGTCAA	GTTTTCCTCT	GTCTGAGCCA	AGATAATATC	TCGTGCTTCT	GCCTGAGACA	16980
GCGCACCAAT	ACGCTCTAGT.	TCTGCTTCTT	TTTGTCTTTC	GACTTCCTCT	AATTGCTCTT	17040
CACGCGCATC	AAGGTTTTTC	GCTCTATCAG	AAATACTTTG	TTCTTTTTGT	TCAAGTGTTT	17100
GTTCTTTACT	CGTCAAATTG	TCGTCCTTAC	GGTCAAGGCT	AGTAGCTCTC	TCTGTCAAAC	17160
GACTTTCGAT	TTGTTTGAGT	TCTTGACGTT	CTGATTTGAA	TTCAGCGTCC	ACTTCTTCAC	17220
GGTATTTTCT	GGCTTCTTCT	TTGGCCTCCA	ATAGTGCTTC	TTTTTTAAGA	GACTTGCTTT	17280
CACGTTTGGC	TTCATTAACA	AGTAAATCCG	CTTCACGCTC	AGCTTGTCCA	CGTAAATTAG	17340
TTGCTTCTTG	TTCAGCATTT	AAAAGCATCA	ACTCTGCAGC	TTCCTGAGAT	GATTTCATCT	17400
TAGCTGAGAT	GCTGACATAT	CCAATGACTA	AACCAATGAT	GACGGCAAAA	ACAGCAATCG	17460
CAAGCGACAT	GATTTCCATG	TTTTTACCTC	ATTTTATTGT	TATTCCGAAT	GACATACATT	17520
CTTTTACATT	CTACCATAAA	AAAGTGATTT	TCACAAACCT	AAAATAGAAT	ATGTTTTGAG	17580
GAATTTGGAA	CACATTTACC	AAAATAAACT	TGTTGTTTAG	AAATAGTAGT	TTAGTAGAGA	17640
CTTGAGAAAA	AGCCTACCTT	TCAATAGACT	TAGTAATGAT	CTTTAAAGGA	CAAGAAAGCC	17700
ACGCTATCTC	CATCCATCAT	ATAAATCAAG	CGATTTTCTG	CATCAATACG	CCGTGACCAG	17760
GCTCCTTGGT	AATCATATTT	GAGTGGTTCT	GGTTTACCTA	TTCCTGTAAA	GGGATCACGT	17820
TGAATATCCT	TGATTAGTTT	ATTGATTCTT	TTTAACGTTT	TCTTATCCTG	ATTTTGCCAG	. 17880
TAGCAATAAT	CTGCCCAGGC	ATCTTCTGTA	AACTTGAGCA	GCATTTCTTA	CTCCTCAATA	17940
ACATGGACCT	GAGTACTȚCC	AGCACGAACT	TGAGCCATTC	CTCGCAAAAC	CTTATCAGAA	18000
AGTTCCTTAT	TTTGAGCAAT	TCTCAGGGTT	TCTTGGATAC	TATCCCACTC	ACTCTTTGAA	. 18060
AGGACTACAA	TGTCCTCATC	TGGATTTTTA	TTGACCACCG	TCAAAGGCTC	AAATTCATCA	18120

TTTACCTTCT TCATGTAGTC CTTTAAATGA TTTCGGAATG TTGAGTAAAG GACTGCTTCC	18180 18240
	18240
ATAACCATAC CTCGTTTTAG CTCTTTTCCA CTATTATACA CGAAAAGAAA GAAATTGTCA	
GGAACTTGTA CAAGATTTTC TTTTCTATCT ATTTATACTC AATGAAAATC AAAGAGCAAA	18300
CTAGGAAACT AGCCGCAGGC TGTACTTGAG TACGGCAAGG CGACGTTGAC GCGATTTGAA	18360
TTTGATTTTC GAAGAGTATT ATTCGTAAAA AATCTCAAAA AGCCTACCTT TCGGTAGACT	18420
TAGTTTGTTT CTATTC	18436

# (2) INFORMATION FOR SEQ ID NO: 88:

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 7001 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double
   (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 88:

ACGTAGAAAA	ACTATTTCTA	TCACAGATAA	TATTCCGTAT	GTTGTTGGAG	GTATTGAAAT	60
AAACGTCCTA	GGTATCTTTC	TCAGTCTATG	TGACTTACAA	GGGAAAACTC	TTTTCGAGAC	120
AGAAATTTTG	AATGAAGATT	ATCCTATTTC	AGAAATCAAT	TCCACCATTA	CCAATATGAT	180
AAAAACAGCT	ATAGAGTACG	TCCCTTTGGA	AACAAAATTA	CTTGGATTTG	GCTTATCAAT	240
ACCTGGACAT	TATAACAAAG	ACTCCGGAAG	TATCATTACA	AACAACCCCA	TATGGGAATC	300
ATTTAATTTT	TTAAATGTAA	TTAAAAGATT	CAATTTTCCT	TTTATTGTAA	AAAATAATAT	360
CGATTGTATG	GCTATAGGAC	AATACCTTTT	TAATCCACAC	AATACCCCCG	ATAACTTTAT	420
TTTCCTACAC	GCTGGATTAG	GTATTTACAC	TTCCTTTTTC	ACAAAAGAAA	AAATAGGAGC	480
CTCTAAAAAT	CCTTATATCG	GAGAAATTGG	ACACACCATT	GTCGAATTGA	ATGGGCAATA	540
TTGTGAATGC	GGAAAAAAG	GTTGTTTACA	AACATATATT	TCGGATGCTT	GGTTAATCAA	600
ACACGCCCAA	TTATTATTTA	AAAATTCCCA	ACTAACTGTA	CTAAAAAGCC	TTGTAAAGAC	660
TGAAAAAGAC	ATTCATTTAG	ACACCCTTTT	AACGGCTTAT	AATTTAGGCG	ACTCCGCTTT	720
ACGTCAACAA	ATTGATAAAG	GAGTCAATTT	ATTAGCCACT	TCTATTGCAA	ATCTCCTCCT	780
CATCAATCCT	GCTGATAAAA	TCTATATCAA	CAGTCAATTG	CTTAATTATC	AACCTTTCAC	840
TCATGAAGTC	AGGGATAAAA	TCCAAGACCA	GCTCCACTTC	GTTCCCTTTA	CTCGTAATAT	900
AGAAATTGAA	ATTTTACCTT	ACAACAAACA	TCGTGGAAGT	ATAGGAGCTT	GTGCATTAGC	960
TATCGTCGCT	TTTTTCATAG	AACATAGCAA	TGTATTACAA	GATATTATTT	CACCTTAATA	1020
TATTAGAAAT	CTATAGACCT	GTTTAAATCA	ACTATAACCT	GTAGTAGATA	TCTCGTATTT	1080

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AGACAATATG	AAAACAAGAC	GACTTCCATA	TAGGAAACCG	CCTTCTCGCT	ATGTTGAGTG	. 1140
ATTTATATTA	AAATAACTTT	TCTTCTAGCT	GCATTTTATT	АТТАТАААА	CATTCATCAT	1200
AACCCCCAGA	ACTTAAATAA	CAATTTTAT	TCAAGATACA	TACTCCTAGA	ATAAACTTTA	1260
TATGAAATTC	TCATTTTTGT	TTTTACAATT	CTCCTTAGTT	AAATCTTGTT	TAATATATGT	1320
TTTACATATA	GTATTTAGCG	CCACATAGTA	CTGAACTCTC	TCCAAAAACG	GTTATTCCTC	1380
TTTGAATAGG	GCGTTATCAC	AAGAAAAGCA	TCTCCACGTT	TCAACTTCAT	ATGGCTCAAA	1440
AACAATCAAT	TGATGCTAAA	ACCTGTACCT	AGATGTTTCG	GTTCATAAAA	CCATGAAACT	1500
GTAAAAGTGG	ATGAAATTGA	TAGCGATAGT	CAAATCAAGA	GGCATCATAA	CTCTAAAAAG	1560
TCACAATATA	TAAGTTCATC	CTCGGAAAAA	TATCATTCTA	ATTGTTGAAA	TGCCTACATG	1620
AAAAGAAACG	TCAAATGCTC	ATGAAACAAC	GAATACAGGT	ATCAAAACTA	TGACAAAACA	1680
AATCCCTAAA	TTTACTAAAG	ACACTGCTCA	ACTTTACACC	TGTAAATGGT	TGTTGTATAA	1740
TAAAGTTACA	AAGATGTACG	ACCACACTGT	TGTAAATCAT	AGTGTTCGCG	AATATATTAC	1800
TGATAGCATT	TCTACAAATA	CAAGTAAAGA	GAGCGGATGA	GATTCAAACG	AAATATGTCA	1860
GTGCTTTGGC	ATTCCTAGCC	TTCATATCAT	TTAAAGAATT	CTATAGACAA	AATTTTTTCC	1920
AATACAGACA	CTCGTAACAA	CTGCTTCATT	TTTCTACCAA	CATATTTAGG	AACAGGATAA	1980
GATACAAGAG	TATTAATCCA	TAGCTCAGTT	CTATACCAAT	CTAAGACAAA	TAAGCTAAAA	2040
AAACGATTGA	TAATAAGCAA	ATAGATTCCA	AATTTTCTCT	ATCTGCTCAT	TTTAATAAAC	2100
AATACTAGTG	TAACTATCCT	TCCAGTCAGA	AGCTTGTCAA	ATCACACCGA	AAATTCTTCT	2160
AAAATTTATC	TCGTTAGGCA	ATCAAGCAAA	AACTCGACGA	TAGTACAAAC	ATTATCATAC	2220
AGGATTGACT	TCCTAAATTA	TATACTTTAG	TAAGGTTTTC	GGATAAGAAA	AAAGGTTCAT	2280
TTTACATTTC	TAAACATTCT	TTTCTAAGAT	GAAAAACAGA	ATTTTTCGAT	TGTGATTTAA	2340
AGCAACAAGA	AGATTTTCAG	TATCATCCTA	TAGATACGAG	CTAATTAAGA	AAAACTACAT	2400
TTTTGAATAT	AAACTACAAT	AATATAAACT	ATATTTTAAA	GGAGGAAGAC	AATGGATTGG	2460
TACGATTATA	TGATACAGGC	ATCCAAACAA	TCACAATTCA	ACGCAAGCCA	TTGGTTTCGC	2520
TATTTGCGAA	AAGTTATTTT	TGAAGACTAT	TCTTATTTAA	CAAACCAAGA	TGTAGAAAAG	2580
TTGCTAGACT	CCAAAGAACT	AACCCGTTTT	СААААААТТА	GCTTGAAGTA	TGCCTTTCAA	2640
GAGCATACTC	CAACTCATAA	ATATGTGATT	тсаттааата	AACCTGCTAA	GTTAACCAAT	2700
GTTCAAAAAT	TGATGGAGAA	ATACAAACAT	GGATAAAATG	AAACCGGTCT	TCCAAGCCCT	2760
AAATAAGGAA	TTAATTCAGG	AAAATCTGAC	TTTAACAATT	ATCTGTGTCG	GTGGTTATGT	2820

			706			
CTTAGAATAT	CATGGTTTAC	GTGCCACACA	AGATGTTGAT	GCTTTTATGG	СТСТАТААТА	2880
TTTGTAGTGG	GTAAATCCCC	TATGGATATT	ATGGAGCCTA	TTTTTGTGTA	GAAAAAAGT	2940
CCCATATGAC	CTATAATGAA	AAGCGACAAA	ACAACTCATT	AGAAAGAATC	ATATGGAACA	3000
ATTACATTTT	ATCACAAAAT	TACTAGACAT	TAAAGACCCT	AATATCCAGA	TTTTAGACAT	3060
CATCAATAAG	GATACACACA	AGGAAATCAT	CGCCAAACTG	GACTACGACG	CCCCATCTTG	3120
CCCTGAGTGC	GGAAACCAAT	TGAAGAAATA	TGACTTTCAA	AAACCGTCTA	AGATCCCTTA	3180
CCTCGAAACA	ACTGGTATGC	CTTCTAGAAT	TCTCCTTAGA	AAACGCCGTT	TCAAGTGCTA	3240
TCACTGTTCA	AAAATGATGG	TCGCTGAAAC	TTCTATCGTC	AAGAAGAATC	ATCAAATTCC	3300
TCGTATTATC	AACCAAAAA	TTGCGCAAAA	GTTGATTGAG	AAGATTTCTA	TGACCGATAT	3360
TGCTCATCAG	CTGGCCATTT	CAACTTCAAC	TGTCATTCGC	AAGCTCAATG	ATTCTCACTT	3420
TGAGCATGAT	TTTTCGCGTC	TTCCTGAGAT	TATGTCCTGG	GACGTTGAAA	CAGTCCGGGG	3480
AGTGACTGTT	TCAATCGGGA	GATGGAGATG	AGCTTTATTG	CGCAAGATTT	TGAAAAGCTC	3540
GATATCATCA	CTGTTCTTGA	AGGTAGAACA	CAAGCTGTCA	TCCGAGATCA	CTTTCTTAAA	3600
TATGATAGAG	CCGTCCGATG	TCGCGTCAAA	ATTATTACTA	TGGATATGTT	TAGTCCTTAC	3660
TATGACTTAG	CTAGACAACT	TTTCCCGTGT	GCTAAAATCG	TTCTTGATCG	CTTTCACATT	3720
GTACAACATC	TTAGCCGTGC	TATGAGTCGT	GTGCGTGTCC	AAATCATGAA	TCAGTTTCAT	3780
CGAAAATCCC	ATGAATACAA	GGCTATCAAG	CGCTACTGGA	AACTCATTCA	ACAGGATAGC	3840
CGTAAACTCA	GCGATAAACA	TTTTTATCGC	CCTACTTTTC	GTATGCATTT	AACCAATAAA	3900
GAGATTTTAG	ACAAGCTTTT	GAGCTATTCA	CAAGACTTGA	AACATCACTA	TCAGCTCTAT	3960
CAACTCTTGC	TGTTTCACTT	TCAGAATAAG	GAACCGGAGA	AATTTTTCGA	ACTTATCGAG	4020
GACAATCTTA	AGCAGGTTCA	TCCTATTTTT	CAGACTGTCT	TTAAAACCTT	CCTCAAAGAT	4080
AAAGAAAAGG	TTATCAACGC	CCTTCAACTA	CACTATTCTA	ATGCCAAACT	GGAAGCGACC	4140
AATĄATCTCA	TCAAACTTAT	CAAGCGCAAT	GCCTTTGGTT	TTCGAAACTT	TGAAAACTTC	4200
AAAAAACGGA	TTTTTATCGC	TCTGAATATC	AAAAAAGAAA	GGACAAAATT	TGTCCTTTCT	4260
CGAGCTTAGC	TTTTTTTCAA	CCCACTACAG	TTGACAAAGA	GCCGGAAAAA	GGAACAGCCT	4320
TAGCTTTCCT	TTCATTTCTT	TTTATTTCCC	TCGTAGTAAA	CGTGCTAGCT	TCCACAAAAC	4380
AAACAGGATT	CCCAGAAATG	CCAGTACCAC	TAGCCCACGG	TACAACCATT	GAGAGGTTGC	4440
AACACGCGAT	ACAGATTGTC	CTTCTTTCGT	AAAAGCAACC	CTCGCAACTG	CAGCTGTTTG	4500
TGGATCTGAT	TTTTGATAAA	CAGCGACTCG	TTCAAAATTC	ACTAATAAGC	GTTTATTAAA	4560
GGTAGGAATC	GGATCGCAGG	TTATCAAGGT	CATGATATTT	TTAGAGCTAA	CCGATTCTAA	4620

TTTTTCCCAT	TCCGACGGTA	AAATAATCTC	TGTGTCCATC	ATCTGATATT	CTACAATTTC	4680
CTGGCCATTA	TCATAATAAA	GAGCATCTCC	AACTTTTAGC	TGATCCAAAT	GGCGGAAAAA	4740
GACATGGCTT	GGCTCTGCAC	GGTGCCCAGC	AATCACTGAG	CGAATCCCTG	TACCATCCAG	4800
AGGCAGCGGT	GTACCATCCA	CATGAGCCAA	GCCCATCCCT	AAATGATGAT	AATCTGCTCC	4860
CAAATAAACC	GGCTCCATGA	TTTCCAAACT	TGGAATAGAC	AAGTAACCAT	AGACTGCATC	4920
AGGGTCGTCA	GACACTTGGT	AATTGACCTC	ATATCCCTCC	GCCAAAAAAG	GATCTACAAT	4980
GCGATTTTGC	GAAGCCAAGC	GTTGATTGTA	GGCGAGAGAA	TGGTTCTGTT	GTTCTTGGTA	5040
CATTTCAGTT	GTCATGGATT	TCACAAATGT	AGCATGACCT	TTCACCTGTC	CAAGAGACTG	5100
CAACACCATC	TGTCCAAAAC	AATAAATAGG	AATCAAACAG	GCTACCAACA	TCAACAAGTA	5160
TCCCAATAAG	GCTCGTAGTT	TAGTCCTTGA	CATGACGCCC	CTCCAATTGC	TTTTCTAGTC	5220
CTTTGACAAT	CCGTCGATTA	CGATACACGC	GATACAGCAA	GAGAAGGATG	ACCGCCATCG	5280
CTCCTAGTAA	TAACCACAAC	CAGAATTGCC	CACGCTCTCT	CACCGCTCGA	TTCCGCTCTG	5340
CAATTGGTGC	CGTATACGGA	ATCCGCTTCC	CACGTACCAA	CAGACGATGA	CTGTTAATCA	5400
TATACGGTGT	ACAAGTCAAC	AAGGTCGCAT	AATCTTCCCC	ATGTTGAATC	AAGACAGGCT	5460
CAAAGTCATT	CGGCTCCACC	GTCACTATCT	GATCCACTTG	GTAGGCCAAC	ACCTGATCTA	5520
AAACGTGAAG	ATAAAAGATA	TCCCCTTTTT	TCATCTTATC	CAATTGACTG	AACAATTCTG	5580
CCGTTGGCAA	TCCTCTGTGA	GCAGTGATCA	CTGTATGGGT	ATTTTCACCT	CCAACAGGCA	5640
GCGAAGCCCC	TTCTAACAGC	CCTGCCCCTT	TCTGAAGAAT	GTCCTCACTC	GTTCCGACAT	5700
ACATCGGAAT	TTCCTGATCA	ATCGCAGGAA	TTTCCACATA	GCCAATCCGC	TCATGGACCT	5760
TTAGCATATT	GGCATATTCT	GAGACGCCTT	TCTTTTTCTC	TTGCTCTGTA	AAAGGATCAA	5820
GAATTTCAGA	TGGTTTCAAG	GTCGCATTGA	AGGCTTGAGC	CAAGCGCCAA	CGCTCCTCAA	5880
GTTCTGCCTT	ATCCATCTGG	GAAACCGTCT	CATCAAACTC	TTTAATAACC	TCGTTTGACT	5940
CAATACGATA	ATAATAACGA	GACACCAATG	GATATATCGC	AACGGCGAAT	CCTACTAAGA	6000
AAATCAGAAG	AAGGATCAGC	GGATGTTTCT	TCTTTTTTGT	GCCTTTTTTT	CGTGAACGTC	6060
TACTGTTGTC	CATCCTCCAC	CTTCACTTCC	TTCCTTGCTG	CTTTCAGCGC	CTTCAAAGCC	6120
TTTTCCGGTT	GTTTTTTCTT	CTTGCGCAAG	CGTCGAATAA	TCCATAAAAG	AATCACAATC	6180
AAACCAACTG	CCACATAAAA	CAGGTAGCGA	TAGAGATGAC	TGAGTTTGTT	TGCTGCAATA	6240
AATTCTTCCT	CAACCTCTGC	TACGTACGGT	ATCCGATGCC	CCCGAACCAA	TAGACGATGG	6300
GTATTGATCA	TGTATGGCGT	ACAAGTCAGC	AAGGTCACAT	AATCATGACC	TGGTACAATC	6360

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AATAAATCAT	CAAAGTTCGT	CGGCTCAATC	ACCTTTACTT	GATCCACTTG	ATAGGCCATC	6420
ACTTCCTTGA	TATTGTGCAC	ATAAAACTTA	TCCCCAACTT	TAAGTTTGGT	CAAATCCGTA	6480
AACATCTTAG	CTGTTGGCAA	ACCTGTATGT	GCCGTAATCA	CCGCATGGGT	CGAATTGCCT	6540
CCGATCGGCA	GAGAAGTTCC	CTCTAGATGC	CCAGCCCCTT	GCTGCAATAC	CTCTTCAGCA	6600
GTACCAGCAT	AAACCGGCAA	ATCCACGTCA	ATAACGGGGA	TTTCCACATG	CCCCATCCGC	6660
TCATGGATTT	CTAACATACG	TGCATACTCT	GCTCGCCCTT	TTTTCTTCAT	TTCTTCCGAC	6720
CAAGGATCGC	CACTCACTAC	ATTATTCAAA	GAGTCATTGA	AGGCTTGTGC	CAATTTCATT	6780
CGTTCATCAA	TGTCAGCCTC	ATCCAACGTT	GCTTTTTCCT	TATCAAAGTC	AGCAATTTGT	6840
TGATTTGATT	CCACTCGATA	ATACAAGCGA	GACACCAGCG	GATACGCCAT	TACCGCCATT	6900
CCAATGAAAA	ATACCACTCC	TAATAGGAGA	TTATTTCGTT	TTTGCTTTTT	TGTTTTTACC	6960
ATTTTTATCA	GCATCCCTTT	ATCTTCAAAC	TTCAGGGTAT	С		7001

#### (2) INFORMATION FOR SEQ ID NO: 89:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 10411 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: double
    (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 89:

GAGGGAGCTT	AAGAAGTTAC	CACCGTCCTC	TAGCGCCTTA	TCCGCATCAA	AGTTAAGGTT	60
GATATTTTTA	AAACTGTCGC	CAGCTTGTGA	TACGATGCTT	TGTTTAAGGT	CATTTAGGGT	120
TTTAGTGAAA	TCTGCATTGC	TGAGGATATC	ACTCTTTGAG	AGATTCAAGG	CAAAATTGAT	180
GATGATATTG	ATCTGGTTTC	CTGTTATGAC	CTGATCAAGT	TTGTAATTTT	TTAAGGTATC	240
TTCAACAATC	TTGCGGATAT	CTTCTTCTGT	CAGATTTCCC	TTACTTTCTT	TAGCTTTGGC	300
GAGTCCTGAC	TTGATATCAG	CTAGGGCAAC	GTTTAATTTA	TTAGCATCAT	AGCCTGATTT	360
GTCCTTGTTT	TCAGCATTGA	TATCTGACAA	AGCTTTTAGC	TCTTCTTGAG	CCAAATCTTT	420
ATTAGCTTGT	GGCACCTTGG	CTCCATTAGC	CTCTAGCGAA	TAGTAAATCC	CTGCTAAAGC	480
ACTTTCTCCT	GTAACTGGAA	TAGGGGCTGC	TACAGTGATT	TTGGCATGTT	CCATACCCAG	540
CGTTACTGCT	GCGTTTCGGT	ACATATCCTG	AGTCACCTTA	GTGATATTTT	CTGGTGTTTC	600
AATCTTGACC	TCAAGTGGCG	ATTTGTCACC	TAGCTTTTGA	ATCTTGGCTG	ATGAATACAA	660
CTGTAAGCTA	GAGTCATTGG	CCACATTCAT	GATTTTAGAA	TAAACATCAG	GTGTCATGGT	720
CTTGAGTTCT	TIGGTATCTG	TTGAGGCATT	GTAGCCCAGT	TTTTTAAGAG	TTTGATTTTT	780

<b>TTGGTCTTCA</b>	GATAGGGAGG	AACCTAGGAC	ATATTCAGGT	TGGACATAGG	TTTCATCGAT	840
AACTTTTTGA	ACATCTGTTG	CTGCATGGAC	GCTATTCATA	GCTGTTACTG	CCCACAAGAT	900
CGCAGCGCTA	GTCAGAAAGA	GTTTCTTTCT	CATAGGGAAT	TTCCTCCTTT	ACTTCTTTAG	960
AGTAATATAT	СТАТСТТААА	GAAAACTTAT	AACAAAAACA	CCTGGTCTAG	CCAGATGTTG	1020
AAAAGAGAGT	GAAACATTTG	ATGATGTAAA	GGTTAAGTCG	TACCTGTCTA	GAATAATAAT	1080
AGTTTCCTCC	ATTTACATAG	AGTTCAGCAC	CGTGAAAAAT	GGAAATGGGG	TGAATATAAC	1140
PATAAGTCTT	TCCAGTCCTA	TTACCAAGCA	AGGGGGCAAC	AGTCTCACGA	GAGTACTGTT	1200
rggctagagc	CAGGGTATTT	TCCTTGCCAT	TTTGGGCGAT	AÁAATCGATA	TAGGCAGGTC	1260
CAAAATTATA	GGCTTGAACA	GCTGTCCAGA	TATCTACCCC	CTTCTTCTGC	GCCAGATAGA	1320
GATTGCCTGT	CAGAGTTTGA	ATGCCTTGCC	GAATGCTAGA	GGCATTATCA	TTGATGGTGT	1380
TGGTGGAACC	ACTTGCAGAC	TCACTAGACT	GCATAACATC	GCCTTCTTTT	CCTTTTGTTT .	1440
CAGTATAAAT	CATAGCAAGC	ACAAGCTCTT	CGTTTGCTGG	GGTGTCTTGT	TCACTCAATA	1500
TTTCTCGCAC	CATGGGTTGA	TAGGTCATGA	CTTGTTTGAC	ATCTTGATGA	ACGCGGTAAG	1560
CTTTATAGCC	AGCAAAAAGG	AAGACTGCTA	GTACAAGCAC	TCTTCGAATT	CGTTTAAACA	1620
PTATTTACTT	TGGATATCCT	CGATATTTTT	GATTAAGATA	GAGTAGGTTC	CATTTTCGTT	1680
PTGGATAAAC	TCAACAGACT	CGGCGTCTTG	ATAGACGTTA	TTGGGAACGA	TGAGCTCAAT	1740
CCATTTGAT	AAGGAGAGTT	TTTGGTTTTC	AAATTTCTTT	AATTGGCGAC	TGGCATCAAT	1800
PTCATCAAAT	TGAACAGGTT	CTGGTACGGC	TTCTTTGACT	TGGTCAATAA	AGCTCAAACG	1860
AGCCGTCAGA	TTGTTGTCAA	AAAGGTCATT	AGCCAATTTC	TCAGGTGACA	ATTCATTGCT	1920
PTCTTCTAGG	TTGTTGAAAA	TAGCTGATTT	GACCTTGGAT	TGAAATTGAA	AATCATCTGT	1980
STTAAAAGAT	TTAGCAATTC	TCTGGGCTGT	TTTTTCCAGT	TCCTTGATAG	ATTTTTTAGG	2040
AGAAATCTTA	GGAGCGACAG	CAAGAAGATT	ATCTGAAAAA	TAGTTCAAAA	AAGTCCCGTT	2100
STACTTGATT	CGTTTTTCAA	TCAGGTGATA	CTTGCTACTC	TGAAGATTGA	CCACCAAGGC	2160
TCATCAGCT	CCTGTTCCAA	ATCCAGGCAG	GTTATTCTGA	GTTAGCTTGA	TTGGATTATC	2220
ACTTCTCCT	CCGAGGTGGG	TCAAGGTCTC	CCGCAGGGCA	ATTCGCAAGA	AAGCGAAATG	2280
TCTACACCT	TCTTTAGAAA	ATTGCACAAA	AATCAAGTCA	TTGGTCTTGA	GATTTTCAGA	2340
ATGCTAAAC	TCCTCTTTCC	AGAGATTAGC	CAGCGTTACT	GATGTCTCCA	ACAAATCGTC	2400
GTAATATGA	TTGAAGAAGG	GATTTTCTTC	TTCGAAAATC	CCAGTCTTGG	CTTCATCTGA	2460
TACACATGT	TCAATTTTTT	TACGCAGGTA	TTCTTCGATT	TTTGGAGTAA	TATTGAGAAA	2520

			710			
CTTATCTGCT	AAGAACAGTT	CGGTATCATC	CGGACTGAAC	TGGTGAATAA	TGGCTTTCTT	258
AATATAAATG	TCCATAAAAG	TTTTAGTCCT	CGTATAATGG	GAAĠGCATCT	GTCAATTCTT	264
TGACTGCACT	TCTCACTTCT	TCTAATACAG	CCTCATTTTC	TGAATTCTTA	AGGGTTTTAA	270
TGATGAGTTC	AGCCACTTTG	CGACTTTCTT	CTTCACCAAA	TCCACGTGCA	GTAATGGCTG	276
CTGCTCCGAT	ACGAATCCCA	CTTGTCTTGA	ATGGTGACAA	GCTTTCGTAA	GGGATTGAGT	282
TTTTATTTAA	GGTAATATTG	ACTTCATCCA	ACAAGTTTTG	AGCAACTTTG	CCGTTTTCTA	288
CAACTTTAGT	CACATCAACA	AGGAAGAGAT	GGTTTTCAGT	TCCACCTGAA	ATAATACGGA	294
AATCAGGGTC	TTGCAAGAAG	ACATCTGCCA	TAGCCTTGCT	GTTCTTAATT	ACATTGGCAG	300
CATATTCCTT	GAAGGCTGGA	TCCAAAACTT	CTTTGAAGGA	AACTGCCTTA	GCCGCCACAA	306
CATGCTCTAA	AGGACCGCCC	TGAATACCTG	GGAAAATAGC	TGAATTGATT	TTTTTAGCAA	312
GTTCTTCGTC	ATTGGTCAAA	ATCAAACCAC	CACGAGGTCC	ACGAAGGGTT	TTGTGGGTCG	318
TTGTTGTTGT	GATATGAGCG	TATGGAACTG	GGCTTGGATG	AAGGCCAGCC	GCAACCAAGC	324
CAGCGATATG	GGCCATGTCC	ACCATGAGCT	TCGCACCGAC	AGCATCTGCG	ATTTCACGGA	330
ATTTTGAAAA	ATCGATAATT	TGAGAATAGG	CTGAAGCACC	AGCTACAATC	AGTTTTGGTT	336
TTACTTCTTG	GGCTTGTTTC	AAGATAGCAT	CAAAGTCTAA	GAGTTCCGTT	TTAGGATCAA	342
CACTATAAGA	AACAAAGTTG	TAGGTTTGAC	CAGAGAAGCT	AACAGGAGCC	CCATGAGTCA	348
AATGACCACC	TGATGCCAAA	TCCATTCCCA	TAACCGTATC	ACCTGGCTCA	ATCAAGGACA	3540
TGTAAGCCGC	ACAGTTAGCT	TGGCTTCCTG	AATGTGGTTG	AACATTGGCA	AATTTAGCAC	3600
CGAAAATTTC	TTTTGCGCGT	TCAATAGCAA	GAGTCTCTAC	AACGTCTACT	ACATCAGTTC	3660
CACCATAATA	ACGGCGTCCT	GGGTAACCCT	CGGCATATTT	ATTTGTCAAG	ATAGACCCTT	3720
GAGCTGCCAT	AACAGCCTTG	GAAACTACGT	TTTCCGAAGC	AATTAACTCG	ATATTATTTT	3780
GTTGGCGTTC	TTCTTCTTTG	GCAATAGCAT	TCCAGAGATC	AGCATCATAT	GCTTTAAAAT	3840
CATCTTTGTC	AAAAATCATA	GGTCTTCTCC	TTTATTGTGT	GACTAGTCCA	TTAGTTTGAT	3900
PTTACAATAA	GAAAATCAAA	CTAACAGATG	CGAATAAACC	GTTTCTGCAT	TTTATCACAA	3960
GTATAGCCAA	CTTTTTCATA	AAATGCATGA	GCACCCAGAC	GATGATTGGC	AGAATTTAAG	4020
CGGATAAACC	CATAACCACA	TCTTTTTGCT	TCTTCTTCCA	ACCCTTGTAG	TAAACTTTTA	4080
CCAATACCTT	GACCTTGCGC	TTGAGGTGAA	ACTGCTAAAG	CTAAGATATT	AAATCCTGCT	4140
PTGGAATAGA	GTGATTCGTA	AACTTCAGCG	TGGACATATC	CAAGTAAGAC	ATGATTAGCT	4200
CATCCTCAT	AGCCAAGTAG	GAAATGATGG	GAATCCTGAG	ACAGTCTAGC	TAGTTGGCTA	4260
SCCGTTTCCT	CTGGACTAAA	AGTATAACCC	AAAGCCTCTT	GGTTGATGTC	ACATATAGCT	4320

TTCACATCAC	<b>ТТТСТСТТАА</b>	ATCTCTTAGC	ATCTCATTCC	TCCTCAAAAG	AAATCTTTGG	4380
CAACCGAGC	AGAATATCTT	CTCGCTTAAT	GGCCCCTTGA	CGTAAGATTT	TCACCTTGTC	4440
TCCCGACAA	TTCAAAATAG	TTGAATCCTG	TCCAGTTAGA	AAAGCATCGT	CTTCCAGACC	4500
CAGAACCTC	TGGTCAAAAT	CCTCTAGAAT	TTGATTAAAG	GTCACTCCAC	TCGCCTGACC	4560
TGAGATATT	GCAGACGGCC	CAATCAAGGG	ACCTGTCTCT	CGAATCAAAT	CAAGGGTAAT	4620
GGGATGACT	GCATCCGAA	ATCCAACAGT	TGCAAGGCCA	GAATTGACCC	AATAGGGAAC	4680
TCGGTCATT	GCTTCGAGAA	TAATGGTCAA	GGGACCTGGT	AAAAAGATCT	CTACAAGTTT	4740
TTGAAGATA	GTTGGCTGAT	TCTTTGAAAA	GTACAAGATG	TCCTCTAAAG	AGGCAACATT	4800
GAGATTGAGG	GCCTTGTCTC	TACGTCGACG	TTTAAGCTGG	TAAACATGGT	CAACTGCTTT	4860
TTCGTCTAGO	GCCTTAGCAA	AGAGACCGTA	AACTGTCTCT	GTAGGCAAAA	CGACAGCTCC	4920
ACCATTTTC	AACTCTTGTC	TAATCCTGTC	CATCATCAAC	GACAACCATC	CTATCTTGAC	4980
CAAATTGGTC	CTTGAGTGTT	CGTACTCGCT	TTTCAGGAAG	ATGTTTCCTA	AAAAGTTCAG	5040
GAACACTTTC	ACCTTGCTTG	TATCCAATTT	CAAGGTAAAT	CTTACCACCA	TCTTTGAGAT	5100
AGTCTTTTGC	ATCTTCCGCA	ATTCTACGGT	AAATAGCTAG	GCCATCCTCA	TCTGCAAAGA	5160
GAGCTAGATO	AGGCTCCGAA	TACAAGACAT	TCAAGCCTAC	СТСТСАСТСА	TCTTCACGAG	5220
AGATATAGGG	TGGATTGGAA	ACAATTATAT	CATATTTTC	AGAAATTTCT	GTAAAACAGT	5280
CAGATTTTT	TAAAAATATT	TGAAGATTTT	GATTTTTAGC	ATTTTCGCTA	GCTACATCTA	5340
AAGCATCTTC	GGAAATATCT	GCTGCCGTCA	CTGACCAATC	TGGTCTGTTT	TTTGCTAGAG	5400
CGAGAGCAA1	AGCTCCACTA	CCTGTTCCGA	TATCTAGGAC	CATAAGATTT	TTCACAGGAT	5460
TTTCAGCCAG	GATAAGCTCC	ACCAACTCCT	CTGTTTCTGG	ACGAGGAATC	AAAACCCGTT	5520
CATCCACCTI	TAAATGCATT	CCATAAAAAT	CTGCCTGTCC	AATGATGTAC	TGAGCTGGCT	5580
TGTGAGCTGC	TAGTTGCTGG	TAAATATCTT	CTACAAATTG	TTTTTCTTCC	TCTGTTGTCA	5640
CCTCCTGCTG	GAGGGCAAAA	ATAAAGTCTG	TAAAAGATAG	ATTTTTCAGA	CTACGATAGA	5700
CAAAAGAGAG	GCTTTCCGCT	TCCTCTCCTT	GTCTTATCAA	CTCTTCTTCA	AAATTTGAAA	5760
ATAATTGAGC	TAATTTCATT	ATTTGTTTAA	TTCTTCTAGT	TTTTGTGTTT	GGTCATAAAG	5820
CACCAAGGCA	TCCACAACTT	CGTCCAATTT	ACCAGACAAA	ATCGTATCTA	GTTTTTGGAG	5880
GGTCAAGCCG	ATACGGTGGT	CTGTGACACG	GTTTTGTGGG	AAGTTATAAG	TTCGGATCCG	5940
TTCTGAACGG	TCACCAGTAC	CGATTGTCGA	CTTACGCTCA	GCGTCCTGCT	CATCTTGAGC	6000
AATCTGAGCA	AAGTGGTCAG	CAACACGGGC	ACGGATGATT	<b>ТТСАТССССТ</b>	<b>ጥርጥር ልቦርርጥ</b> ጥ	6060

			712			
CTTCTGCTGG	GTACGTTCTT	CCTGCATCTC	AACCTTGATA	TTGGTTGGCA	AGTGAACGAT	612
ACGAACGGCA	GTCGCAACCT	TATTGACGTT	CTGTCCACCA	GCACCAGAGG	CGTGATAGAT	618
GTCGACACGA	AGGTCTTTTG	GATCAATGTC	GTATTCAACC	TCTTCAACTT	CTGGCATAAC	624
AAGAACTGTC	GCTGTCGAAG	TATGAACACG	GCCTTGGCTT	TCTGTCACAG	GAACACGTTG	630
CACACGGTGG	GCACCTGATT	CATACTTAAG	CTTAGAGTAT	ACAGACTGAC	CTGAAACCAT	636
AGCAACCACT	TCTTTAAAAC	CACCGACACC	ATTCATAGAG	GCTTCCATGA	CTTCAAAGCG	642
CCAACCTTGG	GCTTCCGCAT	ACTTTTGGTA	CATAGTTAGC	AAATCTCCAG	CGAAAAGTGC	648
CGCTTCGTCT	CCACCAGCTG	CTCCACGGAT	TTCAAGGATG	ATATTCTTGT	CATCGTTTGG	654
ATCCTTTGGA	AGGAGCAAAA	TTTTCAGTTT	TTCTTCATAT	TCTTCTTTTT	CAGCCTTGGC	660
ATCTTTGAGT	TCTTGCTTGG	CCAATTCTTC	CAAGTCCGCA	TCTCCGCCTG	ATTCCTTAAT	666
CATCTCTTCG	GCATCGACGA	TATTTTGAAG	GACTTGTTTA	TACTCACGGT	AGGCTATTAC	672
GGTGTCACGA	TTGGAAGCTT	CTTCTTTTGA	AAGCTCCATA	AAACGCTTGG	TGTCTGAAAC	678
GACATCAGGG	TCACTCAGCA	ATTCTCCTAA	ТТСТТСАТАА	CGGTCTTCTA	CAACTTGTAG	684
TTGATCATAG	ATGTTCATTT	TTTCTCCTTA	TTTCTCAATT	GTTAAATCAT	AGATTGCTAC	690
TACTTCATTC	TCGGATATTT	CCCCAGTTTC	ТТТАААТССА	TAACTGAGGT	AACAAAATCT	696
TGCCTGTTCA	TTTTCTGGTT	CATArGACAA	CCAAAGTTTA	TTGCTTAAAC	CTGCTGGCGC	7020
TGTTCGAACA	TAGTCTAGTA	CTTTATCCAT	AATTGGTTTA	AAATATCCTT	GATTTTGAAA	708
АТТСТТАТСА	ATCATAAAAC	GAAATAGTAA	ATAATTTCCA	CTACTAATTC	CGATCTTTTT	714
ATCATAAGCT	ATCATCACAA	AACCTATAAT	TGCATCATTA	TCATAAACTG	CCAATGGAGC	7200
TACAAAATCT	CCATTTTTAG	TGTAGACGTA	TGCTTCAGCT	AAACTAATTG	CGTTGGTTGC	726
AATGAATTGT	TTTTGATATT	CCTTGACATC	CAAATTTAAA	ACATCAAAAT	AATTTTCCAT	7320
TGTAACATCT	CTTAGTTCAA	TTGTCATAGT	TTTGCTCCTT	GTTAGAGGTT	ATCATTGGCG .	7380
CAAAATAATG	TTTACGGCAA	ACTGAGATAT	AGGTTTCGTT	ACCACCAATC	TGGATCTGTT	7440
CTCCATCGTA	AACGGGCAGT	CCATCCTGTG	TTCGCAACAC	CATGGTCGCC	TTTTTCTTGC	7500
AATACTGACA	GATGGTCTTG	ATTTCGTCAA	TCTTGTCTGC	TAAAAGCAAG	AGATATTTGG	7560
AACCTTCGAA	CAATTCATTG	CGAAAGTCAT	TTTTCAAGCC	AAAAGCCATG	ACGGGTATGT	7620
CTAACTCGTC	CACAACACGA	GCTAGGTCGT	AAACATGGTG	GCGTTTGAGA	AACTGGGCTT	7680
CATCGACCAA	AACACAGTAA	GGTTTTTCTG	GTAGGTCTCG	GATATAGCCA	AAGATATCCG	7740
PTGTTTCCTC	AATCGCAAgG	GCAGGGCGTT	TCATGCCAAT	TCGACTCGAC	ACATAGCCAA	7800
CGCCGTCACG	CGTATCCAGA	GCCGAGGTCA	TAATCACAAC	ACCTTTTCCT	TGCTCCTCGT	7860

\GTT#	ATAGGC	CACTTTGAGA	ATCTCAATCG	TTTTACCAGA	GTTCATGGTC	CCATAACGAT	7920
GTAC	CAACTG	TGCCATGTTT	CTTGCTTCAC	GTCCATTTCT	<b>AAATTTTTGC</b>	TACATTCTAG	7980
rata1	CATAA	TTTTCTTAAG	CTTTAAACGG	CAAAATGTGG	TAAAATAGAA	GAAATCAAAA	8040
CTAC	STGGAG	GAAGCTATTA	TGCCATTTGT	ACGCATCGAT	TTATTTGAAG	GACGCACGCT	8100
CGAGC	CAAAAG	AAAGCTCTTG	CTAAGGAAGT	AACGGAAGCA	GTTGTCCGCA	ACACTGGAGC	8160
CCTC	CAATCT	GCTGTCCATG	TCATCATCAA	CGACATGCCA	GAAGGAACTT	ACTTCCCACA	8220
AGGGG	BAAATG	CGTACTAAAT	AAGCTAGCTT	AAGCAGAATT	GCTTAGGCTT	TTTCAATCTC	8280
CAAGI	PAGCAT	TCATTGAAGA	AATATCCTAA	ATTTGTTACA	ATTTGAAAAG	AAACTTGGAG	8340
ATTI	CCAAG	AAAAGAGCTA	TTAATTAAAG	GAAACATTAT	GATTACACGT	GAATTTGATA	8400
CATO	CGCTGC	TATCTCTACT	CCACTAGGTG	AAGGGGCTAT	TGGTATTGTC	CGCCTGAGCG	8460
JAACA	AGACAG	TTTTGCTATT	GCGCAAAAGA	TTTTTAAAGG	AAAAGACTTG	AACAAGGTTG	8520
CCAGC	CACAC	TCTCAACTAC	GGTCACATTA	TTGATCCTCT	GACTGGTAAA	GTCATGGACG	8580
AGGTT	PATGGT	TGGGGCTATG	AAGTCTCCAA	AGACCTTCAC	TCGTGAGGAT	ATTATCGAGA	8640
DAATT	CACCCA	CGGTGGGATT	GCGGTGACCA	ATGAAATTCT	CCAGCTAGCT	ATTCGTGAAG	8700
GGC1	CGGTT	GGCAGAACCT	GGTGAATTTA	CCAAACGTGC	TTTTTTAAAC	GGTCGCGTAG	8760
ACTTO	GACACA	GGCAGAGGCT	GTGATGGATA	TCATCCGTGC	CAAGACTGAC	AAGGCCATGA	8820
ACATT	GCGGT	CAAACAATTA	GACGGCTCCC	TTTCTGACCT	CATTAACAAT	ACCCGTCAAG	8880
AAATC	CTCAA	TACACTTGCC	CAAGTTGAGG	TCAATATCGA	CTATCCTGAG	TATGACGATG	8940
TGAC	GAAGC	CACTACTGCT	GTTGTCCGAG	AGAAGACAAT	GGAGTTTGAG	CAATTACTAA	9000
CAAA	CTCCT	TAGGACAGCA	CGTCGTGGTA	AAATCCTTCG	TGAAGGAATT	TCAACGGCTA	9060
rcati	rggacg	TCCCAACGTT	GGGAAATCAA	GCCTTCTCAA	CAACCTCTTG	CGTGAGGACA	9120
AGGCT	PATCGT	AACAGATATC	GCTGGGACAA	CACGAGATGT	CATCGAAGAG	TACGTCAACA	9180
rcaat	rggtgt	ACCTCTCAAA	TTGATTGATA	CAGCCGGTAT	TCGTGAAACG	GATGATATCG	9240
TGAA	CAAAT	TGGAGTTGAG	CGTTCGAAAA	AAGCTCTTAA	GGAAGCTGAC	CTAGTTCTGC	9300
PAGTA	CTAAA	CGCTAGTGAA	CCACTAACCG	CCCAAGATCG	CCAACTCCTA	GAAATCAGTC	9360
AGGAG	SACTAA	TCGCATTATT	CTTCTTAACA	AAACTGACCT	GCCTGAAACG	ATTGAAACTT	9420
CGGAA	CTACC	TGAAGATGTC	ATCCGCATTT	CAGTTCTTAA	AAATCAAAAC	ATCGATAAAA	9480
CGA	GAGAG	AATCAACAAC	CTCTTCTTTG	AAAATGCTGG	TTTGGTTGAG	CAAGATGCTA	9540
CTAC	TTGTC	AAACGCCCGT	CACATTTCCT	TGATTGAGAA	GGCCGTTGAA	AGCCTACAAG	9600

CTGTTAACCA	AGGTCTTGAA	CTAGGGATGC	714 CAGTTGACTT	GCTTCAAGTT	GACTTGACCC	9660
GTACTTGGGA	AATTCTAGGA	GAAATCACTG	GAGATGCTGC	TCCAGATGAA	CTCATCACCC	9720
AACTCTTTAG	CCAATTCTGT	TTAGGAAAAT	AAGAAAAATC	CATGATCCTT	CATTCGGTCA	9780
TGGATTTTAG	GTTCTATAAT	ATTTGTAGTG	GGTAAATCCA	CTATAGATAT	TATGGAGCCT	9840
ATTTTATTGT	AGAAAAAAAG	TCCCATATGA	CCTATAATGA	AAAGCGACAA	ААСААСТСАТ	9900
TAGAAAGAAT	CATATGGAAC	AATTACATTT	TATCACAAAA	TTACTAGACA	TTAAAGACCC	9960
TAATATCCAG	ATTTTAGACA	TCATCAATAA	GGATACACAC	AAGGAAATCA	TCGCCAAACT	10020
GGACTACGAC	GCCCCATCTT	GCCCTGAGTG	CGGAAACCAA	TTGAAGAAAT	ATGACTTTCA	10080
AAAAACCTTC	TAAAATTCCT	TATCTTGAAA	CGACTGGTAT	GCCCACTAGA	ATTCTCCTTA	10140
GAAAGCGTCG	ATTCAAGTGC	TATCACTGTT	CAAAAATGAT	GGTCGCTGAA	ACTTCTATCG	10200
TCAAGAAGAA	TCACCAAATC	CCTCGTATCA	TCAACCAAAA	GATTGCTCAA	AAGTTAATTG	10260
AAAAGATTTC	TATGACTGAT	ATTGCCCATC	AGCTTTCCAT	CTCAACTTCA	ACTGTTATTC	10320
GTAAGCTCAA	TGACTTTCAC	TTTAAACATG	ATTTTTCTTG	TCTTCCTGAG	ATTATGTCTT	10380
GGGATGAGTA	TGCTTTTACA	AAAGGGAAGA	T	•		10411
(2) INFORM	ATION FOR SE	Q ID NO: 90	):			
(i) SE	COURNER CHAR	ACTERTSTICS				

- - (A) LENGTH: 2393 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: double
    (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 90:

GTTTTGGGTT	CTGGAAATTA	TCAGATGGTT	GGAAAAGCCG	TCCACATCAA	GATAGTGTTC	60
GGAGATTTAA	GTTTAAATTG	AAGAAACTAA	CACAGAGGAA	ATGGAGTATA	GACCTAACAA	120
GACGTATTGA	GCAACTGAAT	TTGTCTATTC	GAGGATGGAT	AAACTATTGC	TCATTGGGAA	180
ATATGAAAAG	TATAGTCGCC	AGCATAGATG	AGCGCTTGCG	TACTCGCCTA	CGAGTGATTA	240
TCTGGAAGCA	ATGGAAGAAG	AAATCGAGAC	GATTATGGGG	ATTGCTTAAG	TTAGGAGTTC	300
CTAAATGGAT	AGCAGATAAG	GTATCTGGCT	GGGCGACCA	TTATCAATTA	GTAGCTCAGA	360
AGTCGGTACT	TAAACGTGCT	ATATCAAAAC	CAGTCCTGGA	AAAACGTGGA	CTGGTTTCGT	420
GTTTGGATTA	TTACCTTGAA	CGACATGCGT	TAAAAGTTAG	TTGAACCGCC	GTATGCCAAA	480
CGGCACGTAC	GGTGGTGTGA	GAGGGGCTAG	AGATTATCCC	CTACTCGATT	AACTCCCCTG	540
AAATTTATTT	TAATTATGCA	AATTTCACGT	ATTTTTGATG	CTGAGACGAC	GATCCTGGGA	600

						•
660	GAGCGCCAAA	GAAAAGCTTA	TCTATCATTA	ACTATCTAAA	TATTTTTTTG	ACTTTTCAGA
720	ATTGAAGATG	CTCTTTTTCG	TTTTTCCAGT	TTTTTAAGAC	GTTTTTCTGA	GGATTTGAGC
780	TCATAATTCC	ACAACGATAA	GTACTAGCCA	TAACTTCTTA	ACTAACTAAC	TAATTATTCT
840	AAACCTCACT	TTCATGTAAA	TTTTTGTTTT	AAGGCAATAG	AGGAATAATA	TCCTAAAATT
900	AAAGTTTGTA	ATTTAATTCC	TAAAAATCAA	GCTAAAATAT	GCTATTTTAT	TTTGTTTTCT
960	CTCAATTATT	TTGTTAGTCT	ATTTGTCAAG	TGTCTAATTC	GAGCGCTACA	ACTAAAGGGG
1020	ACATTATTTC	GCTAACATAT	AACAATCATT	TCTTTAGAGT	GCAGATATTT	TGCAAATTTA
1080	CTTTTGTTGC	GGAATATCCT	ТАТСТТААТА	CACTAGTTCC	ATTGCCACAT	AAAATCAGTA
1140	TATCTTTATC	AATAGGGTTT	GTTAGCGCTA	TTACTAAAAG	GTTCCGTTGG	GAGTCTTTTA
1200	TAATGCAATC	ATGTTTACCG	ACTGGTAGGA	TATTGGCGAT	AAGACTATAT	TCAATTTGGA
1260	ATGGTTTTGC	TCCATACTAG	TGTTGCAATT	ATCTATTTGT	TTGGTGACCT	CGTAGCGCCT
1320	AGGCTAATTC	GATTTGGGTA	CTATGCGACC	TTGTGCCACG	TCCTATGCTA	AGCACCCGTT
1380	GTGGACTCTT	TGGGGATTAG	ATTGATAGGT	AAGCTGTTCA	ATGACTGGTG	AGCCTTATCA
1440	ATATCATTTC	TTAGTCTTGT	GTGTATCAAT	TACCTACCAC	ATTGGTCTGT	GTTTGCAACA
1500	CAGAAACTAA	GTGTTAGAGT	TGAAGTGGAG	TTCCTAACGC	ATGTTATTTC	TAGCTTTCTG
1560	TAAGACTTTT	AATCCTAGAT	AGTTGCTAGA	GTTGGAAGTT	TTGCTCAAAG	TCTTGAAATT
1620	CCATTATACT	TGGGTTTCTT	AAATACGATT	AAATTTTTTC	AATTTATTGG	TGTATCAGCA
1680	CTAATACAGC	TGGGGATATT	GGAAAGTTAC	TAAATAAAAC	ACGGAGTTAT	TGTTTTTGTA
1740	AAAAGTTCCT	AGGÇTATCTG	AATTGCTTTT	TTAGTGGCTT	GGTATTATAA	ATACTCTATT
1800	AGAATCCTTG	AAAACCATCC	CCCAAATCTA	AATTATTCAC	TGGGAACCCC	TGCTGCTAAA
1860	TACTAGACAA	GGGTGTTTTT	TTCACCCAAT	GGTTTCTTTT	GATCCTGGAT	CCTŢAGCTTA
1920	AGGAAACTCA	ACAAAAAGAA	AGAAAAAAC	GTATAAGTGT	CCCCTTTATG	AAAAGAGTTT
1980	TATCTTTCGA	TTTTACCAAC	AAACAAGTCT	ATCACTTCCA	TTACCAAATC	CATGAACAGT
2040	TTTCCCAGTT	CAGGAACTTT	TATCTTTTTT	ATGGTGGTCT	TTAACCCAGT	TGGAGGTCAT
2100	GCTACTGTCG	GACCAACGCC	AGTAACGAAT	CTAAGTATTT	GAGCGGATTT	GAAACTAAAA
2160	GTTATGGAAC	CTGTTAACAG	CCTCTTTCAA	TTGTCCAGTT	TCAGATATCC	TTATTCGGAT
2220	TGGAAGGAGG	CCAAAATTGT	TGCCTACTTT	TGTCAGCTGA	TGTAAAGAAT	GGACTATGCT
2280	AGGAAACAGT	AGAACTGACG	TTTTCTTTCC	CCTTATCCCG	TCACAGCCAA	GCAGCTTGCT
2340	TTCACCAGCT	TTTTTACAGT	GGTCGAATTC	ACCTTGAATT	CGATGCCTCA	CCATAGTTTG

2393

			716			
AAACCAACTC	ATTGTAGATA	ACGATTCTAC	CCATTTCACA	ACTTATGGCA	AGC	

# (2) INFORMATION FOR SEQ ID NO: 91:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 4762 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 91:

TTTGTATCTT	TTTAGGTCTC	TTTCAATCCA	AACCCTTTAA	ACTATACGTC	ATTTCGGTTC	60
CTGCAAGTCT	TGTGGTAATT	TTAGGTTTGA	TTTTACTTTT	CTTTTCACAA	GAGCCTCTGC	120
ACGCTTCTTA	TTTGATGGTC	GTCTTCCCTG	TTTTCCTACT	TTTATTGGTA	ACCAATATTA	180
AGAGTCAACA	GAGGGGGCGT	AGTGCTAGAA	GAAGCCGAAG	AGAAACGCCA	TTATGCCTAT	240
GGAGTCGTTT	CTTCAAAGGA	AATCTATATC	TGCTAGTTTT	TGGGTTTGTC	TATCTTTTGT	300
CTGTTCCTTT	TTTGATGAAG	TTTGTCCTTT	ATCCAGTACC	TTATCAAGAA	CGTAATCGTC	360
TTGCTGATTT	GGTAAAAGAG	GAGACAAATA	CGGAAGATGC	TATCTCATGC	ATGGGATGAT	420
ACTGCGACTC	TTTATCGTAA	GAGTGAGCGC	TTGTCCCATC	GGCGATTTTG	TCCCCGTTGC	480
ACTATACAGC	AACTGAGGAA	AATCGTAATA	AGTTACTTAA	TGACTTGAAA	GAAAAACAAC	540
CTAAGGTGAT	TGTGGTAAAT	GATAAGGTGG	TAGTCTGGTC	TGAAGTGGAA	ACACTCTTAA	600
AAGAAAATTA	CCAACAAGTA	AAGACTGATT	ACTCAGAGTT	TAAAGTCTAT	ТАЛАТТАЛАЛ	660
AACCAAATCA	ATATCTTGTG	TATTTTTAAA	AATTTTAGGA	TTTTTAACAC	AAGATATTGA	720
TTTTTCTTTT	TAGAGTGGTA	TAATACTTTT	TAGAAAGAAC	ATTTTAGAAA	AGAGCATGCA	780
TATGATTGCA	CTAGAAGAAA	AAATTACAAT	TTTGCCAACT	CTCTTCGTCG	AGAAACGAGA	840
TGGGAGACGT	GTTGTATTTG	ATGTGGACAA	GATTGACAAG	GCTCTCCACA	AGGCGGCTGA	900
CAAGGTTATG	GATGTGACAC	CCCTGGTTGA	AAAATGCCTC	AATGATCTGA	CTGAGCGAAT	960
TATTACAGAA	ATTCATAGTC	GCTTTCCACA	GGGAATTAAG	ATTTACGAAA	ттсаааатат	1020
CGTAGAACAT	GAACTCCTTG	AAGCCAAAGA	ATATGCGCTG	GCTGAGGAGT	ATATTACTTA	1080
TCGGACACAG	AGGGATTTTG	AGCGCTCAAA	AGCGACGGAT	ATCAACTTTA	GTATTCATAA	1140
ACTTCTCAAC	AAAGACCAGA	CAGTTGTCAA	TGAAAACGCT	AATAAAGACA	GTGATGTCTT	1200
TAACACTCAG	CGTGATTTGA	CAGCAGGGAT	TGTTGGGAAA	TCAATCGGAC	TGCAAATGCT	1260
TCCTAAGCAC	GTAGCCAATG	CCCACCAAAA	GGGGGATATC	CACTATCACG	ATTTGGACTA	1320
CAGTCCCTAT	ACCCCTATGA	CCAACTGCTG	TTTGATTGAT	TTTAAGGGTA	TGTTGGAAAA	1380

TGGTTTTAAG	ATTGGAAATG	CAGAGGTAGA	GAGTCCCAAG	TCTATCCAGA	CTGCGACAGC	1440
ACAGATTTCT	CAAATCATTG	CCAACGTTGC	TTCTAGCCAG	TACGGTGGCT	GTTCAGCTGA	1500
CCGTATCGAT	GAAATTTTGG	CGCCTTATGC	AGAGAAGAAT	TATCAAAAAC	ATCTCAAAGA	1560
TGCAGAAGAG	TGGGTATTGC	CTGAAAAACA	GGAAGATTAC	GCTTGGAAGA	AAGCGCAAAA	1620
GGACATCTAC	GATGCCATGC	AATCTCTTGA	GTATGAAATC	AATACTCTCT	TCACTTCAAA	1680
TGGACAAACA	CCTTTTACTT	CGTTAGGTTT	TGGTCTGGGA	ACCAGTCGTT	TTGAACGAGA	1740
AATTCAAAAA	GCTATTTTAA	ACATTCGCAT	CAAGGGTCTT	GGTTCAGAAC	ACCGTACGGC	1800
TATCTTTCCT	AAACTTATCT	TTACGCTTAA	AAGAGGCCTC	AACTTAGAGG	AAGGAACTCC	1860
CAACTATGAC	ATCAAGCAGT	TGGCTCTAGA	GTGTGCAACC	AAGCGGATGT	ATCCAGACGT	1920
CTTGTCTTAT	GATAAGATTG	TTGATTTGAC	AGGTTCTTTC	AAGGTGCCTA	TGGGCTGCCG	1980
TTCTTTCCTT	CAAGGGTGGA	AGGATGAAAA	TGGTGTAGAA	GTCAATTCAG	GTCGCATGAA	2040
TCTGGGTGTT	GTGACGGTTA	ATCTGCCTCG	TATTGCTCTT	GAGTCTGAAG	GTGATATGAA	2100
TAAGTTCTGG	GAAATCTTCA	ACGAGCGAAT	GAATATCGCA	GAAGATGCTC	TTGTTTACCG	2160
TGTCGAACGC	ACTAAAGAGG	CGACACCAGC	GAATGCTCCT	ATTCTTTATC	AGTACGGTGC	2220
TTTTGGCCAT	CGTCTAGGTA	AAGAAGAAAG	TGTTGACCAG	CTCTTTAAGA	ATCGTCGTGC	2280
GACCGTTTCG	CTGGGCTATA	TCGGCTTGTA	TGAAGTAGCG	ACAGTTTTCT	TTGGTAACAG	2340
CTGGGAAAGT	AATCCAGATG	CTAAGGAATT	CACGCTAGAC	ATCATTCACG	ATATGAAACG	2400
CCGTGTAGAA	GAGTGGTCAG	ACCAATATGG	CTACCATTTC	TCTATCTACT	CAACACCATC	2460
CGAAAGTCTG	ACAGACCGTT	TCTGCCGACT	AGATATAGAC	AAGTTTGGCT	CTATTCCTGA	2520
TATCACAGAC	AAGGAATACT	ACACCAACTC	TTTCCACTAC	GATGTTCGTA	AAAATCCAAC	2580
ACCGTTTGAA	AAATTGGACT	TTGAGAAAGT	CTATCCGGAA	GCAGGTGCGT	CAGGTGGTTT	2640
CATCCATTAT	TGTGAGTATC	CAGTCCTTCA	GCAAAATCCA	AAGGCCTTGG	AAGCTGTCTG	2700
GGATTATGCT	TATGACCGTG	TAGGCTATCT	AGGCACCAAT	ACTCCGATTG	ACCGTTGCTA	2760
CAAGTGTGAC	TTTGAAGGGG	ATTTTGAACC	AACTGAGAGA	GGGTTTGCTT	GTCCAAACTG	2820
TGGCAATAGC	GACCCTAAAA	CAGTAGATGT	GGTGAAACGA	ACTTGTGGCT	ACCTAGGTAA	2880
TCCTCAAGCA	AGACCGATGG	TCAACGGGCG	TCACAAGGAA	ATCGCTGCGC	GTGTCAAACA	2940
TATGAATGGT	TCAACGATTA	AAATAGCTGG	GCATCAAGTA	ACAAATTAGA	AAGAAATGAA	3000
ATGGGAAAAT	ATCAACTAGA	CGATAAGGGG	CGCGCACAAG	TGACCCGTTA	TCACGAGAAA	3060
CACTCTAAAG	GTGGAGCTGG	TAAGAAAGAA	CGCTTGCTTA	GCTTCAGAGA	ACAATTTTTA	3120

			718			
AACAAGAACA	AGAAAAAATA	AAAGTGAGAG	CCAGCTCTCG	CTTTTCTCAT	AGTGGGAGGT	3180
AAGGATGGAA	TTACGCAGAC	CAAGATTAGC	GGATAAGAAA	GCTGTTTTAG	ATATGATGAC	3240
agagtttgaa	AAATTTCAGT	CGCCTCACGA	CGGCGGTTTC	TGGGATACAG	AGAACTTTGT	3300
GTATGAAGAC	TGGTTAGAAA	GCAATCAGGA	ACAGGAAATG	GGGATTAATC	TGCCTGAAGG	3360
ATGGGTTTCT	GCAATTCAGT	TAGTGGCTTT	TTCTGAGAAA	GGTCAAGCAG	TTGGATTTCT	3420
TAATCTCCGG	TTGCGCCTCA	GTAACTTTCT	ACTAGAAGAA	GGTGGCCACA	TTGGCTACTC	3480
CATTCGTCCA	TCTGAAAGAG	GCAAGGGTTA	TGCAAAAGAG	ACTCTCCGTC	AGGGCTTGCA	3540
AGTTGCTAAG	GAAAAGAACA	TCAAGAAAGC	TCTGGTGACC	TGTAGTGTGA	ATAATCCTGC	3600
TAGCAGAGCA	GTCATTCTAG	CAAATGGTGG	AATATTTGAG	GATGCTCGCA	ATGGAGTCGA	3660
GCGTTATTGG	ATAGAGGTAG	CGAATGAATA	ATCCAAAACC	ACAAGAATGG	AAAAGCGAGG	3720
AACTTAGTCA	AGGTCGTATC	ATTGACTACA	AGGCCTTTAA	CTTTGTGGAC	GGCGAAGGCG	3780
TGCGCAACTC	TCTCTATGTA	TCAGGCTGTA	TGTTTCACTG	CGAGGGATGT	TATAATGTTG	3840
CGACTTGGTC	TTTTAATGCT	GGCATTCCCT	ATACAGCAGA	ATTAGAAGAG	CAGATTATGG	3900
CAGACCTTGC	CCAACCCTAT	GTTCAAGGCT	TGACTTTGCT	GGGAGGGGAG	CCTTTTCTCA	3960
ATACTGGGAT	TCTCTTGCCA	CTTGTTAAGC	GGATTCGGAA	GGAATTGCCA	GACAAGGACA	4020
TCTGGTCCTG	GACCGGCTAC	ACTTGGGAAG	AAATGATGTT	GGAAACTCCA	GATAAACTGG	4080
AATTCTTGTC	ACTGATTGAC	ATTCTTGTCG	ATGGAAGATA	TGATCGAACT	AAGAGAAATC	4140
TTATGCTCCA	GTTTCGAGGT	TCATCTAACC	AACGAATTAT	CGATGTGCAA	AAATCGCTCA	4200
AAAGTGGGCA	AGTAGTGATT	TGGGACAAGC	TCAATGACGG	AAAAGAAAGC	TATGAACAGG	4260
TGAAGAGAGA	atgaagaaaa	AGGACTTAGT	AGACCAACTA	GTCTCAGAGA	TCGAGACGGG	4320
GAAAGTCAGG	ACACTGGGAA	TATACGGTCA	TGGAGCTTCA	GGTAAATCAA	CCTTTGCACA	4380
GGAATTGTAC	CAAGCTTTAG	ATTCTACTAC	AGTAAATTTG	CTAGAGACAG	ATCCTTATAT	4440
CACCTCAGGA	CGCCATCTGG	TAGTACCCAA	GGACGCGCCG	AATCAAAAGG	TGACAGCCAG	4500
TCTGCCAGTG	GCGCATGAAC	TGGAGAGTTT	GCAGAGAGAT	ATCCTTGCTT	GCAGGCGGGT	4560
ATGGATGTCT	TGACAATTGA	AGAACCTTGG	AAGGCTAGTG	AGGTCTTGTC	TGGAGCCAAA	4620
CCAATTTTGA	TTGTCGAAGG	GATGTCTGTT	GGCTTTCTAC	CCAAGGAACT	CTTTGAAAAA	4680
ACCATCTGTT	TCTACACGGA	TGAGGAGACC	GAATTAAAGC	GACGCCTTGC	TAGAGATACG	4740
ACTGTGAGAA	ATCGCGATGC	<b>G</b> G				4762

<sup>(2)</sup> INFORMATION FOR SEQ ID NO: 92:

<sup>(</sup>i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 3832 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 92:

GATGCAGGTT	TCGACCCACA	TATTCCAGAA	AATTACTTTA	AAGATGATGA	TGTTAATCAG	60
GTACCTTGTC	TTTGTTGGTC	TTCATCTGCA	GCCCTCTTTT	TCAGTAATTG	GGTAGACCAT	120
GCGGTCTATC	AGGAGACGCC	TTTTGATTGG	AGAAAGATAG	AAGATGATGC	ATCTGCATAT	180
GGGTATTTAT	AAGAGGAATT	ATGACATATT	TAGACGCTTT	TAAATCAGGT	ACCTTGGTTT	240
TACCGAGTGC	CCTGCTCTTG	CATTTTAAGG	AACTCTTTCC	TTCTAGCGAC	GATTTTCTGG	300
TTTGGCAATT	TTTCTATTTG	CAAAATACGA	CAGGCTTAGA	AGAAATGTCG	CCAAGCCAGA	360
TTGCTGAAAG	GATTGGCAAG	GAAATTTCGG	ATGTCAACCA	GTCCATTTCT	AATCTGACGG	420
AAAGGGGACT	GCTCCAGTAT	CGTACTATCG	AATTAAATGG	CGAAATTGAA	TTGCTCTTTG	480
ATGCTAGTTT	GGCCTTGGAA	CGTTTGGATG	ACCTGTTTGG	AGCAGTTCAT	TCAAGTTCAG	540
ACCAGCTAAC	ACCTCAAAAC	CAGCTCAAGG	ATTTGGTGGA	AACCTTCCAG	CAGGAGTTGG	600
GACGATTGTT	GACGCCTTTT	GAGATTGAGG	ATTTGACCAA	GACACTAAAG	GAAGATGGAA	660
CCAGTGCTGA	CTTGATTAAG	GAGGCTCTTC	GTGAAGCTGT	TTTGAATGGA	AAACCAAACT	720
GGAAGTACAT	TCAGGCGATT	TTGAGAAACT	GGCGCCATGA	AGGAATCAAG	AGTGTGGCTC	780
AAATTGAGGC	CAAGAGAGCA	GAAAGAGAAG	CAAGCAATCC	TCAGTTGACA	CAGGTATCTG	840
CAGATTTCAT	AAATGCCATG	GATCTCTGGA	AGGATTAATC	CATGCAAGTA	GGCTTGAAAT	900
CCGAGTAAGA	TTTGCAAGCT	GTGTATAATT	GTGATAGAAT	AAATAGAAAA	TAAATTGAAA	960
AAAGAGGTAT	GTGAAATGTC	ACGTAAACCA	TTTATCGCTG	GTAACTGGAA	AATGAACAAA	1020
AATCCAGAAG	AAGCTAAAGC	ATTCGTTGAA	GCAGTTGCAT	CAAAACTTCC	TTCATCAGAT	1080
CTTGTTGAAG	CAGGTATCGC	TGCTCCAGCT	CTTGATTTGA	CAACTGTTCT	TGCTGTTGCA	1140
AAAGGCTCAA	ACCTTAAAGT	TGCTGCTCAA	AACTGCTACT	TTGAAAATGC	AGGTGCTTTC	1200
ACTGGTGAAA	CTAGCCCACA	AGTTTTGAAA	GAAATCGGTA	CTGACTACGT	TGTTATCGGT	1260
CACTCAGAAC	GCCGTGACTA	CTTCCATGAA	ACTGATGAAG	ATATCAACAA	AAAAGCAAAA	1320
GCAATCTTTG	CGAACGGTAT	GCTTCCAATC	ATCTGTTGTG	GTGAATCACT	TGAAACTTAC	1380
GAAGCTGGTA	AAGCTGCTGA	ATTCGTAGGT	GCTCAAGTAT	CTGCTGCATT	GGCTGGATTG	1440
ACTGCTGAAC	AAGTTGCTGC	CTCAGTTATC	GCTTATGAGC	CAATCTGGGC	TATCGGTACT	1500

			720			
GGTAAATCAG	CTTCACAAGA	CGATGCACAA	AAAATGTGTA	AAGTTGTTCG	TGACGTTGTA	156
GCTGCTGACT	TTGGTCAAGA	AGTCGCAGAC	AAAGTTCGTG	TTCAATACGG	TGGTTCTGTT	162
AAACCTGAAA	ATGTTGCTTC	ATACATGGCT	TGCCCAGACG	TTGACGGTGC	CCTTGTAGGT	168
GGTGCGTCAC	TTGAAGCTGA	AAGCTTCTTG	GCTTTGCTTG	ACTTTGTAAA	ATAATCAGTA	174
AGTAGCAAAA	GCTAGGTGGA	ACAGCATTCA	GATGTCTGTT	ACATTTTTA	TAGGAGAGAA	180
AGATTGAAAA	CAAAAATTGG	ATTAGCAAGT	ATCTGTTTAC	TAGGCTTGGC	AACTAGTCAT	186
GTCGCTGCAA	ATGAAACTGA	AGTAGCAAAA	ACTTCGCAGG	ATACAACGAC	AGCTTCAAGT	192
AGTTCAGAGC	AAAATCAGTC	ТТСТААТААА	ACGCAAACGA	GCGCAGAAGT	ACAGACTAAT	198
GCTGCTGCCC	ACTGGGATGG	GGATTATTAT	GTAAAGGATG	ATGGTTCTAA	AGCTCAAAGT	204
GAATGGATTT	TTGACAACTA	CTATAAGGCT	TGGTTTTATA	TTAATTCAGA	TGGTCGTTAC	210
<b>PCGCAGAATG</b>	AATGGCATGG	AAATTACTAC	CTGAAATCAG	GTGGATATAT	GGCCCAAAAC	216
GAGTGGATCT	ATGACAGTAA	TTACAAGAGT	TGGTTTTATC	TCAAGTCAGA	TGGGGCTTAT	222
GCTCATCAAG	AATGGCAATT	GATTGGAAAT	AAGTGGTACT	ACTTCAAGAA	GTGGGGTTAC	228
atggctaaaa	GCCAATGGCA	AGGAAGTTAT	TTCTTGAATG	GTCAAGGAGC	TATGATGCAA	234
AATGAATGGC	TCTATGATCC	AGCCTATTCT	GCTTATTTTT	ATCTAAAATC	CGATGGAACT	240
PATGCTAACC	AAGAGTGGCA	AAAAGTGGGC	GGCAAATGGT	ACTATTTCAA	GAAGTGGGGC	246
PATATGGCTC	GGAATGAGTG	GCAAGGCAAC	TACTATTTGA	CTGGAAGTGG	TGCCATGGCG	252
ACTGACGAAG	TGATTATGGA	TGGTACTCGC	TATATCTTTG	CGGCCTCTGG	TGAGCTCAAA	2586
GAAAAAAAAG	ATTTGAATGT	CGGCTGGGTT	CACAGAGATG	GTAAGCGCTA	TTTCTTTAAT	2640
aatagagaag	AACAAGTGGG	AACCGAACAT	GCTAAGAAAG	TCATTGATAT	TAGTGAGCAC	270
<b>AATGGTCGTA</b>	TCAATGATTG	GAAAAAGGTT	ATTGATGAGA	ACGAAGTGGA	TGGTGTCATT	276
GTTCGTCTAG	GTTATAGCGG	TAAAGAAGAC	AAGGAATTGG	CGCATAACAT	TAAGGAGTTA	282
AACCGTCTGG	GAATTCCTTA	TGGTGTCTAT	CTCTATACCT	ATGCTGAAAA	TGAGACCGAT	288
GCTGAGAGTG	ACGCTAAACA	GACCATTGAA	CTTATAAAGA	AATACAATAT	GAACCTGTCT	2940
PACCCTATCT	ATTATGATGT	TGAGAATTGG	GAATATGTAA	ATAAGAGCAA	GAGAGCTCCA	3000
AGTGATACAG	GCACTTGGGT	TAAAATCATC	AACAAGTACA	TGGACACGAT	GAAGCAGGCG	306
GTTATCAAA	ATGTGTATGT	CTATAGCTAT	CGTAGTTTAT	TACAGACGCG	TTTAAAACAC	312
CCAGATATTT	TAAAACATGT	AAACTGGGTA	GCGGCCTATA	CGAATGCTTT	AGAATGGGAA	318
AACCCTCATT	ATTCAGGAAA	AAAAGGTTGG	СААТАТАССТ	CTTCTGAATA	CATGAAAGGA	3240
ATCCAAGGGC	GCGTAGATGT	CAGCGTTTGG	TATTAAGCGA	TGATTTGAAA	GAGGGATGTG	3300

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ATAGTAGCAC	CCTCTTTTTC	TTTGTTTTAT	GATAGTTCAT	CCTCGAGTAA	ATTCAAGTTC	3360
TTGCTCGGAA	ATGAAGCTTA	TATAGTAGAT	TGAATATAGA	CAAATACCTT	GTGATTGGTA	3420
AAACATTTTA	GAAATTCATT	TACCTTTCCT	AATCGACTTG	GTTTCATCTT	ATTTCAATCT	3480
ATTATAGTAT	TGGGGAATTT	CTTCAAACCA	CATCAGCTTG	GTCAGTTCTA	CCTGCGACCT	3540
CAAAACTTGT	GCTTTGGTCA	AGCTGGGTTT	AGTTTCCTAG	TTTGCTGATG	GATTTCCATT	3600
GACTATAAGC	ATCCAACCCT	CTTTTTGTCT	TCTAAAGAAT	TCTTAAATTA	TCAGTCTATT	3660
GCAACTTTTC	TCATATAAGT	TCTTTGTCTT	GCTATTGGTT	TTCCTTAGTA	GTATACTAAG	3720
GTAGTAATCA	TTAAGAAGTG	GTTACAAAAA	ATAATGAATG	aggtaaagaa	AATGGTAGAA	3780
TTGAAAAAAG	AAGCAGTAAA	AGACGTAACA	TCATTGACAA	AAGCAGCGCC	GG	3832

# (2) INFORMATION FOR SEQ ID NO: 93:

# (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 10690 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 93:

TGAAAAAATC	CTCATGAACC	TGGCGCCAAT	AGACAAGTGT	CTTGTTTCCC	TCACCTTCCT	60
TATAGGCATG	GTCAGCTGAC	ACTCGATTGA	AGGGTTTAAC	AGAAACCTTT	GTAATTTCGA	120
CAATGCAGAC	AGCCTGATTT	TGACTATCTA	AAATGACATC	GAAGGTCCCT	ACTTGGGGAA	180
GTGGTTCGTC	TTCTAGCACA	TAGAGGTCAT	AGGCTGATGC	TGTTGCTGTC	TTTTCTCCTT	240
TAAACACCAA	ATCCGCTAAA	AGGTCTGGTT	CAACTCCAAA	AGCCCAGGCA	TCGATTTCAT	300
CTCCGATCAA	AGGATTGATT	TGCTTGTATT	TATTCCACAT	TTCTTGCGGT	ATCATGGGTG	360
CTCCTTTGTA	ATTTTTTACT	TTCTTCTTTT	ATGTGTTTAA	GATGATCTGG	ATGGTCAATC	420
TCTAAATCAA	AAATCTCTGG	AATAGAACTG	TAGTGGATAA	TGCACTTGAT	ACCCAACTGA	480
TTCATTTTTT	GTATGAAAGA	AGTATTCAGA	TAGCCTGCTA	CAGCAAAATC	AATCTTGTTC	540
TTTCTTGCTT	TATCCTGCAT	ATCTCTTAGC	ATATCTAACA	TTATTGGACT	TTCCATATCA	600
TGCCATTGAC	TGTTTCTCAT	AGTCGCAAAA	ACAAAGGAAG	TCAAATCATT	CATTCCAACT	660
ACAATCTTTG	`AAATGCCCGT	TTCCAGTATA	CTAGATAAGT	CAAAATACGC	TGACGGTAAT	720
TCAATCATCG	TTCCGACTTT	CCCAGTAAAA	CCCTGCTGAC	GCAATACTGT	AATAGCTTGT	780
TTTAATTGGT	CGGCATCATT	GACAAAAGGA	AAGATAACAG	ATAGATTGGG	GTTGGTTTGA	840

			722			
PAAACTTCTG	TAACGACATG	TGCTTCAGCC	TGAAATTCAT	CCAAACACGC	CAGTAAACGC	900
CTAGTTCCTC	TATAGCCAAA	CAAGGGATGC	CCTTCGTCAA	AAAACTCTTT	AGTCCCCACT	960
AAACAATTGG	CTTCTGTATT	CGTTAATTCA	GTAAAACGAT	ACCAAACTTC	CTTACCTAAG	1020
<b>PAAAAG</b> GAGC	AAATAGTATC	AAGATAATCT	TTCACAAATT	CCTGACAACT	TTGTAATAGT	1080
ATATTTTGAT	TGAGCTCTCT	CAATAAGTAT	TCCCCACGAA	TCATGCCGAC	GTGGTGAAAT	1140
AGTTGAGGAT	AAATTTTTTC	AAGAATTTT	TCGCCACTAA	GGGCAAGTTG	ATTTCTCATC	1200
ATTCACCTTC	CAATTCATGT	AAGAAGTCTT	GTCCAGTTCT	GGAAATCCTA	ATAATTCAGA	1260
CTTAACCTTC	AAGACTAATG	GCGATGCATT	TTCTTCTGTA	ATCTCTTGAA	TATCCATCCA	1320
AATATATCCA	AGTGAATCAT	TCGCACCATC	AGACACAGCT	TCCGAAATCG	TAACTTGAGG	1380
rgcactctca	TTCATTTCAA	CATCATACAA	GGCTATGACA	TGGTGAACCA	TAAAATTTTT	1440
PAACTCTTCC	CTGACGAAAA	CATCGTAGAT	TCGAGGATTA	GAGTAGCTTC	TAACAGTAAA	1500
rcccgtctct	TCCATAACTT	CTCTAGTCAG	CGTTTCCGTC	AGTCCTTCAC	CAAGTTGCTG	1560
ACTGCCTCCA	GGTAGATCAT	ACCGATGTTG	ATAAGGGCCT	CTCGTTTTT	CAATGCAAAG	1620
PAACTTTCCA	TTTTCAAAGC	AAACACAGTA	GACCCCAAAG	TGATTTTTGA	TTTCCATCCA	1680
ACTCCTCCTA	CTTCAAAGAC	CAGCCACCAT	CTATTGTCAA	GATTTGTCCT	TGCATGGCGC	. 1740
regettttee	ACTTGCTAAA	AAAAGACTAA	GCTCTGCTAT	TTCCTCTGGC	TCAATCCAGC	1800
CTTGATTGG	GGTTTCACTA	GCCACCCAGT	CAGCCAAACC	ACCTGGTTCA	AAATCCGCAG	1860
CGTCATAGC	TGTCTTGACT	GCTCCTGGAG	CGATACCAAA	GACCTGAATC	CCAGCTTCAG	1920
CATAGTCTAG	AGCCAACTGC	TTGGTGAAGC	CAGCCAAGGC	ATGCTTGGAT	GAAGTATAGG	1980
CGTGACCACC	TCCACCTGCT	AGGCTAGAAG	CAATGGAACA	CATATTGATG	ATGATTCCCT	2040
PTTTATTTC	CAGCATTTGT	GTCAAATAAT	ACCGAGTCAA	CTCTACTGGA	ATAATGTAGT	2100
GATTTCAAA	AATCTCTTGA	ATGTCCTGCG	CCGTTTGTTC	CAACAGTGGT	TTGTAATCAT	2160
CCAAAACTCC	AGCAGTATTA	CACAAAACAT	CCACCTGAGG	GCACCAGTCA	AAAATAGGTT	2220
CAAGTCCAA	GGTCAAATCT	CTCTGTAAAA	AGCGAAAATC	ACCCTCTAAG	AGTGGCTTTT	2280
CACCTTGGTC	AACTCCATAA	ACTTGATAGC	CCTTCTCTAA	AAAGAGGCGA	GCTTGAGCCA	2340
TCCGATCCC	TGAACTCACT	CCTGTAATGA	GTACACGTTT	AGTCATGCAC	TTCTACCCAA	2400
CCGTTGCCA	AAACATCACA	AACTGTCGGG	CTCCACATGG	AAAAACCTTC	TCCTTCGCCA	2460
GAAACGTTGA	TTAGGAAATA	AGGTGTCATT	TCAAGTGCAA	GCCCATTTTG	CTCGATGGTA	2520
CAAAGAGTT	GGACATAGTT	TTCCGCACCT	CCCCAACCAG	TTCGTACATA	TTTTCTCTTA	2580
CCTTTAACC	CAGGCAGGAT	СТСТТСАААТ	GTCATGTTTT	<b>ፕሮ</b> ጥሮ <b>ሮ</b> ጥጥጥልል	ጥጥጣንልር ልሞጥር	2640

TTCATTTAAT	TATAGCAAAA	AACCGCTTTA	TACGGCTTTT	TGAATGTGAG	TTATTCAAAC	2700
CTGCTACTAC	TTACGGCAAA	TTATTCCCTG	CAGCAAGATA	AATTTCATAC	CATTCTTTTC	2760
TTGTTAAGCT	AAAGTTTGCC	GCTCGGCTAA	CTTCTCTCAA	GTGCTTAGGA	TTTGTTGTAC	2820
CTACGACTGC	CTGCATTTTT	GCTGGATAAC	GCAATATCCA	AGAAATGGCA	ATAGTTGAAG	2880
AGGTTACTCC	ATATTTAATA	GCTAAACGAT	CAAGTACTTG	ATTTAAAGCT	TGAAATTTCT	2940
CATTTCCAAC	AAAATTCCCT	TTAAAATACC	CGAATTGTAA	GACAGACCAT	GCTTGAATGA	3000
CCACATCGTG	TAATTGGCAA	ТАТТСААААА	TGCTGCCATC	TCGCATAGCT	GCTTGACTAT	3060
CTTCCATATT	AACATGAAAA	GCTGATTCAA	ATCCTGGAGT	AAAAGCCGCA	CTCAATTGTA	3120
GCTGATTAAC	AGCTAACGGC	TGCTTGACAT	CTTTTTTAAG	CAACTCCATC	ATCATAGGAT	3180
TTTGATTAGA	AACTCCAAAA	TCTCGAACTT	TACCTTGTTT	ATAAAGGAGA	TTAAAGGCTT	3240
CTGCTACTTG	GTCAGATTCC	ATCAAAGCAT	CTGGTCGATG	AAGGAGCAAG	CTATCTAGAT	3300
GATCAATCTT	CAATCTTTGC	AAAATACCGT	CTACTGATTT	TATAATATAG	TCCTTAGAAA	3360
ААТСААААТА	GGTAAATTCT	TCAATGCGAA	TGCCACATTT	GGACTGAATC	CACATCTTTT	3420
CTCTTAAATC	TGGACGATTT	TTTAGGACAA	GACCTAACAG	TTCTTCACAA	CGACCACGAC	3480
CATAAATATC	AGCCAAGTCG	AAGGCATTGA	TTCCAACAGA	AAGTGCTGTT	TCTACAAGCT	3540
CTTCAACTTC	TTTTACAGAT	TTATCTTTTA	TTCTCATCAT	TCCGAGAACA	ATTTCTGATA	3600
ATTCTTTGTC	ATCTTGACCA	AGAGTTATGT	ATCTCATCAA	ATTTTTCTCC	тттаатттст	3660
AACATTCTTC	CCTTCATTAT	AACAAAAAAC	CGCTTTGCAA	CGACTTTTTG	ACTATACTTC	3720
ACTCCATTTT	ATCTTCTTAA	ACCCACGGAA	CAAGACAAAG	ATTCCAATAA	AGAGGACAGC	3780
TAAAGGAATA	ACTTTTGTAA	GGAAAACATT	TGAAATTCCC	ATCCACTCAT	AATAACGGAG	3840
CAGAGAACCC	ACCACAAGAT	GGGCAATAAT	CATACTGACA	AATGGACGAA	AGACCGCTTC	3900
PTTCCAATTC	CAAATACCGA	TAACTAGCGA	AATCGTAAAG	ACAGACAAAC	TATCCCAGGG	3960
AGCCGGAATA	TAAAAGGCTC	CTTCTTGTAT	GAAGCTTGCC	ATTCCTACAT	ATCCTAAAAC	4020
AACTAGAAGA	ACTATAGTCC	CAACAACAAT	GTAAGTGCCA	ATTTTCATTT	TAGGAGAATC	4080
PTGGACTAAA	CTTCTTCGTA	AAATTGTGGC	CACAAGTCCA	AATCCAATCA	GAAAAATAAG	4140
AAGTTGCCCT	AAAAATGTGA	GCAAATTGAC	TGTTAAGAGA	GGACCTTTAG	AAAAATCACT	4200
PAGTAGTTGA	TAATAACGTA	ATACCGCCAG	GACAAGAATT	GGCGTCAAAA	GGGACTCTTT	4260
GATAGAACTG	CGAGGTGCTC	CCTTGAGAAT	CTCTTTCATT	ATTTTTTAG	GATTCTTACC	4320
PAGATAATCC	TCTGCACTCA	TGCCATCTCG	TTCTGCTTCT	GAGAAATCTA	GCATCATCAA	4380

			724			
ATAGATCTGC	TCTCTGAGAT	AGTCTTCATC	ATAGAGAAAT	CCAGCAAGAT	TAAAACTTTC	444
CCACAACTCC	TCAAAATACT	TTTGATTCTC	CTCAGAAAAC	TCATGTAGCA	AAGCGCTTGT	450
TTCTTCGTAA	TACTTCATTT	TCTTCATGGT	TTAACCCCCA	ТТСТТААТСС	CTTCTACTTT	456
TTGACTCAAA	TCGTCCCATT	GTTGCCAAAA	GACTGAGACA	CGCTCTTCTC	CTTCTTTCAT	4620
TAATGAAAAA	TACTTCCGAT	CTGGACCATC	TGGCGACGGG	CGCATGTCGC	CTCTTATCCA	4680
TTGATTTTTT	TCTAACTTTT	GCAACAAAGG	ATAAATAGTT	CCTGGAACGA	TAGTATCAAA	4740
TCCAGCCTCT	CGCAAAGTCT	GAACCAACTC	ATAACCATAC	CGCTCTTTTT	GACCAATCAT	480
ATCCAAGACA	CAACCTTCAA	GAACACCTTT	TAATAGCTGA	GTTTCTTTCA	TCACTTCTCC	4860
CTTCTAATCT	ATTTTGTAAT	ACCTACTAGT	GACTTCACCT	ATAGTATATC	ACTTCTACAC	4920
TAGTTTGTAA	AGCATAATAG	TTAATACTCT	TCGAAAATCT	CTTCAAACCA	CGTCAGCGTC	4980
GCCCTACCGT	ATGTATGGTT	ACTGACTTCG	TCAGTTTCAT	CTACAACCTC	AAAAACATGT	5040
TTTGAGCTGA	CTTCGTCAGT	TTCATCTACA	ACCTCAAAAC	AGTGTTTTGA	GCTGACTTCG	5100
TCAGTTTCAT	CTACAACCTC	AAAACAGTGT	TTTGAGCTGA	CTTCGTCAGT	TTCATCTACA	5160
ACCTCAAAAA	CATGTTTTGA	GCTGACTTCG	TCAGTTTCGT	CTACAACCTC	AAAACAGTGT	5220
TTTGAGCAAC	CTGCGGCTAG	CTTCCTAGTT	TGCTCTTTGA	TTTTCATTGA	GTATAAATAA	5280
AAAAACAGAA	CTAGCCTGAA	CTAGTCCTGT	CTACTTTTAC	CCAATCACAC	TTCCATTTGG	5340
TACAGCTGGA	TCAACTGTGA	GAAGGGTTAA	TTTGCCATCA	TGTTCAGCTG	AGAGAATCAT	5400
ACCCTGGCTG	ACATATTTT	TCATCATTTT	ACGTGGTTTG	AGGTTAGCAA	CGATTTGAAC	5460
TTTCTTGCCG	ACCAATTCTT	GTTCATTTGG	ATAGTATTTT	GCAATTCCTG	AAAGAATCTG	5520
ACGATCTTCT	CCATCACCAG	CATCCAAGCG	GAATTGAAGC	AACTTATCTG	AACCTTCTAC	5580
PTTAGACACT	TCTTTGACTT	CTGCGACACG	GATTTCAACC	TTGTCAAAGT	CTTCAAACTT	5640
GATTTCATCC	TTGTTTAGTT	TGAGCTCAAC	TTCGTCCGGA	TTCCATTCTT	TTTCGACTGC	5700
<b>PGGTTTATTG</b>	CCTTCCATTT	GTTCCTTGAT	ATAGGCGATT	TCTTCTTCCA	TATTTAGACG	5760
rggaaagata	GGTGTTCCTT	TGGCAACTAC	AGTCACATCT	GCTGGGAAGT	CAGCCAAACT	5820
CAAGTTTTCA	AGACTAGAAA	CTTCTTCCAA	ACCAAGTTGA	GTCAAAACTG	CACGACTAGT	5880
TTCCATCATA	AATGGTTCAA	TCAAGTGAGC	AACTACACGA	ATGCTGGCTG	CCAAGTGGCT	5940
CATGACACTT	GCCAATTGGT	CACGAAGAGC	TTCATCCTTG	GCCAAGACCC	ATGGTGCGGT	6000
CTCATCGATG	TATTTATTGG	TACGAGAGAT	CAGAGTCCAG	ACTGCTTCAA	GCGCACGTGG	6060
ATAGTCAACT	GCTTCCATGT	GTGTATGGAA	GTCTGCGATT	GATTGTwCTG	CAACCTCAGC	6120
AAGAACATGA	TCATATTCAG	TCACACCTTC	TACATAGGCA	GGGATTTGTC	САТСАВАСТВ	6180

CTTATTAATC	ATGGAAACCG	TACGGTTAAG	GAGGTTCCCA	AGGTCATTAG	CCAATTCATA	6240
GTTGATACGG	CCGACATAGT	CTTCAGGAGT	AAAGGTTCCG	TCTGAACCAA	CTGGAAGGTT	6300
ACGCATGAGG	TAGTAACGAA	GTGGATCTAG	TCCATAACGC	TCTACCAACA	TTTCAGGGTA	6360
AACGACATTC	CCTTTTGACT	TAGACATTTT	TCCGTCTTTC	ATGACAAACC	AACCATGGGC	6420
AATCAAACGA	TCAGGTAATT	TAACATCCAA	CATCATAAGA	AGGATTĞGCC	AGTAGATAGA	6480
GTGGAAGCGA	AGGATATCTT	TTCCTACCAT	ATGGAAGACT	GTTCCATTCC	AGAACTTGTC	6540
AAAGTTACCA	TGTTCGTCTT	GAGCGTAGCC	AAGAGCTGTC	GCATAGTTAA	GAAGGCCATC	6600
AATCCAAACG	TAGACAACGT	GTTTTGGATT	TGATGGGACA	GGCACTCCCC	ATGTAAAGGT	6660
TGTACGAGAT	ACCGCCAAAT	CTTCCAAGCC	TGGCTCGATG	AAGTTGCGTA	GCATTTCATT	6720
AAGGCGACCA	TCTGGCGTGA	TAAATTCAGG	ATGAGCTTTG	AAAAATTCGA	CCAAACGGTC	6780
TTGGTATTTG	CTAAGGCGAA	GGAAGTATGA	TTCTTCAGAA	ACCCATTCAA	CCTCATGACC	6840
TGATGGAGCA	ATACCACCAG	TCACATTTCC	AGCTTCATCA	CGGAAAACTT	CTGCCAGCTG	6900
GCTTTCTGTA	AAGAATTCTT	CGTCTGATAC	TGAATACCAA	CCAGAGTATT	CACCCAAGTA	6960
GATATCATCT	TGAGCAAGTA	AGCGTTCAAA	GACTTGTGCG	ACAACTTTTT	CATGGTAGTC	7020
ATCAGTTGTA	CGGATAAATT	TATCGTATGA	GATATCTAGT	AATTGCCAGA	GTTCTTTAAC	7080
TCCAACCGCC	ATTCCATCAA	CATAGGCTTG	AGGTGTAATA	CCAGCTTCTT	CCGCTTTCTG	7140
CTGGATTTTC	TGACCATGTT	CATCAAGACC	TGTCAGATAA	AATACATCGT	AGCCCATCAG	7200
GCGTTTGTAA	CGTGCTAGGA	CATCACATGC	GATAGTTGTG	TAGGCAGAAC	CGATATGAAG	7260
TTTCCCAGAT	GGATAGTAAA	TCGGCGTTGT	AATATAAAAA	TTTTTTCAG	ACATAATITT	7320
TCCTTTCCAG	GCAAATGAAA	CCTGTTTTTC	TAACACTTCA	ТТАТАТСАСА	TTTTTAATGA	7380
ATTTCAATAG	GGAAATCCAT	ACAAAAACAA	GATAGACGAG	TGTCCATCTT	GTTGATCTCA	7440
TTCATAACGA	AGGGCTTCAA	TTGGATCAAG	TTTCGATGCC	TTGTTGGCTG	GCAAGACTCC	7500
AAAAATCATA	CCAACACTAG	CCGAAACTGC	AAGACTAAAT	AGGGCGACTG	GGATTGATAC	7560
TCCAACTTCT	ATACCTTCTA	TTAAACCTTG	CAGTAACAAA	CCTGCTAAGg	CAGTTAAACC	7620
ACTTGCAATT	GTCAAGCCAA	TTAAGCCACC	TAACAAGGTC	AAAATCATGG	ATTCAATCAA	7680
AAACTGAATT	AAAATATTGG	CACGTGTTGC	ACCCAAAGCC	TTACGAAGAC	CAATCTCACG	7740
AGTGCGCTCT	GTCACCGAAA	CCAGCATGAT	GTTCATGACA	CCAGTTCCTC	CAACAAAGAG	7800
AGAAATCCCT	GCGATGGAAC	TAATAATCGT	CGTCATAAAA	CTAAACGATT	GTTGAATTTC	7860
TGCAAATACA	ACGGACTCAT	CTGCCACCTG	GTATTCTCCC	TGTTGTAAGC	CTGCAAGCTC	7920

			726			
TGTCATTTTT	CGTGCCAGTT	CTGGACCCAG	AGTTGGGGTT	AAACTGGTAT	CATTCACTCG	7980
AAAGACAATA	TTAGCTATTT	CATCTACATT	AAAATTCGCA	GCAAGGGAGA	TATTGGTAGT	8040
AATAGGCAAG	CCACCAAACC	CATATATTT	TGATCTTTTA	GCCTCCGGAC	TAGTATAAAC	8100
CCCAATGACC	CGGTAACTAA	ATCCATTGAC	TTCTACAACC	TTGTTAATAG	CCTCTTGAGG	8160
AGATTCAAAT	AAACTAATGG	ACAATTCCTC	ATCTAGCAAA	ATGACACTTG	CAAACTCTTT	8220
GAAATCTTGC	TCTCTCAGAC	TACGACCTGC	AATAATTTCA	TTCTTAACAG	CGTCCATGTA	8280
AGTTCTGTTT	CCACCTGTCA	AATTAGCATT	CTCAACCTTT	TTATCTTGAT	AGGTCAAGAT	8340
GGCATTCGTT	GAATTGGTTA	CATAGTAACT	ATCCACTCCC	TTCAGTTTAG	CTGCCTCTTG	8400
GACCCAGGAT	TCTTGCGGTT	TTGGCGGTTC	AACAGGAACT	TCCTCTTCCT	TTCCAGAAAC	8460
CGTAAAAGCT	GATTGTTTCT	GAGTAAAAGA	CCCGTCTTTA	CTTTTTTTAG	GAGAGAAAA	8520
GACGCTAATA	TTTTTCTGAG	ATTTAGTCAT	ATCTTTATTG	ACTTGACGAG	ATAGGGAATC	8580
ACCCAAAGCC	ATAATCACAA	CAACTGATGA	AACACCGATA	ATAATCCCAA	TCATAGTAAG	8640
CAAAGAACGC	ATCTTGTGAG	CCATGATAGA	TGAAAAGGCA	AATTTCAGAT	TCTGCATCTT	8700
AGTTTTCCTC	CTTTCCTAAC	TGAGCACTGT	CAGACGAAAT	GACCCCATCC	CGAATGACAA	8760
TCTGACGTTT	GGCATAGGCA	GCAATCTCAG	GCTCATGCGT	TACCATGATA	ATGGTTTTTC	8820
CTTCTTTATT	CAAATCAACC	AATAATTGCA	TAATTTGGTT	ACCTGTTTTG	GTATCCAAGG	8880
CTCCTGTCGG	TTCATCCGCT	AGGATAATAG	AAGGATTGTT	TACCAAGGCA	CGCGCAATGG	8940
CTACACGTTG	CTTTTGACCA	CCAGATAATT	CTGAAGGTAA	ATGGTGACTA	CGTTCTGTCA	9000
ATTCAACCTT	GTCTAAATAT	TCCTCAGCCA	ACTTGCGACG	TTTTGAAGAC	GAAACTCCTG	9060
CGTAAATCAA	GGGCAATTCT	ACATTTTGCA	GAGCATTGAG	CTTCGATAGA	AGAAAGAACT	9120
GCTGAAAGAC	AAAACCGATT	TGTTGGTTAC	GGACCTTAGC	TAGTTGTTTT	TCACCAAGCC	9180
CAGCCACTTC	TTGACCTTCA	AGATAATATT	CTCCACTGGT	TGGTGTATCC	AACATGCCAA	9240
PCGTATTCAT	CAGAGTGGAC	TTACCAGACC	CAGATGGTCC	CATGATGGCT	ACAAATTCAC	9300
CCTCATTCAC	TTCTAGATTG	ATATTTTGA	GAACCTGCAG	TTCTTGGTCA	CCATTACGGT	9360
AACTTCTGAA	GATATTTTTT	AGACTAATTA	GTTGCTTCAT	CAGCCTTCAC	CTCTTTTCCT	9420
PCTTCCAAGG	AAGATGTTGG	ATTACTGATG	ACCTTAGCAC	CGTTCGTTAA	ACCAGAAGTG	9480
ATTTCTTGAT	TTTCTGCGTC	AGCATTTCCC	AATGAAACCT	CAACTTTTTT	AGCCTTTTGT	9540
<b>PGTTCATCCA</b>	CAATCCAGAC	ATAATTTTTA	CTATCATCCA	TTACTAGACT	GCTAACAGGA	9600
ACAAGAATAG	CCTTAGTTTT	GCTTTTAACC	TCAATGTTGA	CAGAAAAACC	TTGTTTCAAA	9660
PCACCAACCT	CGCCTGTCAC	ATCAATAGTA	TAAGGGTATT	TAGAACCTGT	ATTATTCCCG	9720

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GCTGCTGGA	C TAGCTGCTTC	ACCATTGTTT	TTAGGATAGT	CAGAAATATA	GCTTAATTTC	9780
CCAGTCCAT	T TTTTATCAGG	ATACACTTTA	GAAGTAAAGC	TTACTTCTTG	ACCTACAGAA	9840
AGGTTGGCT	A GATTGTACTC	AGACAATTCT	CCCTTGACTT	GTAAATTTTC	ATTGCTGACA	9900
ATATGAACC	A TAACTTGACT	CGCCCCTGTT	GGAGATTTAG	AAACATTGCT	ATTGACTTCG	9960
ACCACAGTT	CCTCTAGGGT	ACTGAGAACA	GTTGTTGCAT	CCAATTGACT	TTGAGCCTTG	10020
CTTAATTGC	G CCGCAGCATC	TGCACGCGCA	TCACGGGCAT	CACCCAATTG	AGCGTCAATA	10080
GAAGCAACA	AATTTCCAGC	CACTGGAGTT	GGGCTTTGCA	CCGTTGCATC	TTCTCCTCCT	10140
ACTGGCGCTY	GTAACTGTGG	AGCCGGAGCT	GAAGCGGCTT	CATTTCGTGC	TTGATTGAGT	10200
PCATTGATA:	r gacgatetge	CCTAGCTACT	GCTCGACTAG	CTGAATCATA	GCCGCCTGC	10260
GCTTCTGAA	C TACTGTACTT	GACTAAAGCC	TGCCCTTCGC	TGACCTTATC	GCCCACAGAA	10320
ACAAGGATT	CATCTAAATC	ACCCTTACTA	GCATCAAAAT	AAACATATTG	TTCATTTTTT	10380
GCTGTTACTO	TCCCTGACAA	TAAAACAGAG	GAGGCCACGC	TTCCTTCCTT	GGCAACAACA	10440
AGATGAGTAG	G GCTCATCTTT	TAGAGCAGTC	TGAGAAGGTT	GTCTAAAGAG	TAAAATCCCC	10500
CCAGCACCC	A ATACAACTAC	ACTCGCAGCA	CCGATTGCTG	CATACAGTTG	CCACTTTTTA	10560
GCTTTACCA	TCTTTTTCTT	CATAATGAAA	CTCCTTTTCT	TTTTTACAAT	ACTTTGCTAT	10620
PATACCAAA?	TTCCCTCCAG	CAAACAATAC	AGTTCAGGAT	TAAACAATCG	TTCGGAATTT	10680
rgcttttcg(	3					10690

#### (2) INFORMATION FOR SEQ ID NO: 94:

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 8195 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double
   (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 94:

GAGAAAGCGC	CCACGTTTCC	CCGAAGGGAG	AAAGGCGGAC	AGGTATCCGG	TAAGCGGCCA	60
GGGTCGGAAC	AGGAGAGCGC	AACGAGGGAG	CTTCCCAGGG	GGAAACGCCT	GGTATCTTTA	120
TAGTCCTGTC	GGGTTTCGCC	ACCTCTGACT	TGAGCGTCGA	TTTTTGTGAT	GCTCGTCAGG	180
GGGGCGGAGC	CTATGGAAAA	ACGCCAGCAA	CGCGGCCTTT	TTACGGTTCC	TGGCCTTTTG	240
CTGGCCTTTT	GCTCACATGT	TCTTTCCTGC	GTTATCCCCT	GATTCTGTGG	ATAACCGTAT	300
TACCGCCTTT	GAGTGAGCTG	ATACCGCTCG	CCGCAGCCGA	ACGACCGAGC	GCAGCGAGTC	360

				728			
•	AGTGAGCGAG	GAAGCGGAAG	AGCGCCCAAT	ACGCAAACCG	CCTCTCCCCG	CGCGTTGGCC	420
•	GATTCATTAA	TGCAGCTGGC	ACGACAGGTT	TCCCGACTGG	AAAGCGGGCA	GTGAGCGCAA	480
•	CGCAATTAAT	GTGAGTTAGC	TCACTCATTA	GGCACCCCAG	GCTTTACACT	TTATGCTTCC	540
•	GGCTCGTATG	TTGTGTGGAA	TTGTGAGCGG	ATAACAATTT	CACACAGGAA	ACAGCTATGA	600
•	Catgattacg	AATTCGAGCT	CGGTACCCGG	AAAATCCAGA	AAATGCTTGA	AAAAAATCCT	660
i	AGAAGATGGT	АТААТАСТАА	ATTGTAAGGG	TTATCACATA	ТААСТСАААА	AAAGAAAGAA	720
(	CAAAAGGAGA	GTCAAACTAT	GGCTTCTAAA	GATTTCCACG	TAGTGGCAGA	AACAGGTATT	780
•	CACGCACGTC	CAGCAACATT	GTTGGTACAA	ACTGCTAGCA	AATTTGCTTC	AGATATCACT	840
(	CTTGAGTACA	AAGGTAAATC	AGTTAACCTT	AAATCAATTA	TGGGTGTTAT	GAGTCTTGGT	900
(	GTTGGCCAAG	GTGCTGACGT	AACTATCTCA	GCTGAAGGTG	CAGATGCAGA	TGACGCTATC	960
(	GCTGCAATCT	CAGAAACAAT	GGAAAAAGAA	GGATTGGCAT	AAGGGAAATG	ACAGAAATGC	1020
•	PTAAAGGAAT	CGCAGCATCT	GACGGTGTTG	CAGTTGCAAA	AGCATATCTA	CTCGTTCAGC	1080
(	CGGATTTGTC	ATTTGAGACT	ATTACAGTCG	AAGATACAAA	CGCAGAAGAA	GCTCGCCTTG	1140
2	ATGCCGCTCT	ACAGGCATCA	CAAGACGAGC	TTTCTGTTAT	TCGCGAGAAA	GCAGTAGGTA	1200
(	CGCTCGGTGA	AGAAGCAGCT	CAAGTTTTTG	ATGCTCACTT	AATGGTTCTT	GCTGACCCAG	1260
1	AAATGATCAG	CCAAATCAAG	GAAACTATCC	GTGCGAAGAA	AGTGAATGCA	GAAGCAGGTC	1320
•	rgaaagaagt	TACAGATATG	TTTATCACTA	TCTTTGAAGG	CATGGAAGAC	AACCCATACA	1380
5	rgcaagaacg	CGCAGcGGAT	WTCCGCGACG	TGACAAAACG	TGTATTGGCA	AACCTTCTTG	1440
(	TTAAAAAATT	GCCAAACCCA	GCTTCTATCA	ATGAAGAAGT	GATTGTGATT	GCGCATGACT	1500
7	GACTCCTTC	AGATACAGCT	CAATTGGACA	AAAACTTTGT	AAAAGCTTTT	GTAACCAACA	1560
2	TTGGTGGACG	TACAAGCCAC	TCAGCTATCA	TGGCACGTAC	ACTTGAAATT	GCTGCTGTAT	1620
7	FAGGTACAAA	TAACATCACT	GAAATCGTTA	AAGACGGTGA	CATCCTTGCT	GTTAACGGGA	1680
7	CACTGGAGA	AGTGATTATC	AACCCAACAG	ATGAACAAGC	GGCAGAATTT	AAAGCAGCTG	1740
C	TGAAGCCTA	TGCGAAACAA	AAAGCTGAAT	GGGCACTTTT	GAAAGATGCT	CAAACAGTGA	1800
C	TGCTGACGG	TAAACACTTC	GAGTTGGCTG	CTAATATCGG	TACTCCAAAA	GACGTTGAAG	1860
C	TGTTAACAA	CAACGGTGCA	GAAGCTGTTG	GACTTTACCG	TACAGAGTTC	TTGTACATGG	1920
7	TTCTCAAGA	CTTCCCAACT	GAAGATGAGC	AGTATGAAGC	ATACAAGGCT	GTTCTTGAAG	1980
G	BAATGAACGG	TAAACCTGTT	GTCGTTCGTA	CAATGGATAT	CGGTGGAGAT	AAGGAACTTC	2040
c	TTACTTCGA	TATGCCTCAC	GAAATGAACC	CATTCCTTGG	ATTCCGTGCT	CTTCGTATCT	2100
c	TATCTCTGA	GACTGGAGAT	GCTATGTTCC	GCACACAAAT	CCGTGCTCTT	CTTCGTGCGT	2160

CTGTTCACGG	TCAATTGCGT	ATCATGTTCC	CAATGGTTGC	GCTCTTGAAA	GAATTCCGTG	2220
CAGCGAAAGC	AGTCTTTGAT	GAAGAAAAG	CAAACCTTCT	TGCTGAAGGT	GTTGCAGTTG	2280
CGGATAACAT	CCAAGTTGGT	ATCATGATCG	AGATTCCTGC	AGCGGCTATG	CTTGCAGACC	2340
AATTTGCTAA	AGAAGTTGAC	TTCTTCTCAA	TTGGTACAAA	CGACTTGATC	CAATATACAA	2400
TGGCAGCAGA	CCGTATGAAC	GAACAAGTTT	CATACCTTTA	CCAACCATAC	AACCCATCAA	2460
TCCTACGCTT	GATTAACAAT	GTGATCAAAG	CAGCTCACGC	TGAAGGTAAA	TGGGCTGGTA	2520
TGTGTGGTGA	GATGGCTGGT	GACCAACAAG	CTGTTCCACT	TCTTGTCGGA	ATGGGCTTGG	2580
ATGAGTTCTC	TATGTCAGCA	ACATCTGTAC	TTCGTACACG	CAGCTTGATG	AAGAAACTCG	2640
ACACAGCTAA	GATGGAAGAG	TACGCAAACC	GTGCCCTTAC	AGAATGCTCA	ACAATGGAAG	2700
AAGTTCTTGA	ACTTCAAAAA	GAATACGTTA	ATTTTGATTA	ATCGAAAAGT	CCCTGCAACT	2760
CAGTTACAGG	GATTTTTTTG	ATATTTTAAA	AAGAATTTTC	AAGAAAATCT	TTCTTATAGA	2820
AAGTCCAACC	TTGAAAAAGT	AGTGGTCAGA	АСАЛАЛАТА	CTTAAATGGT	TCATAAAATT	2880
CTTGACAAGT	TGGATATTTA	GGAGTAAACT	ATTAACCAGT	TAAGTAATAG	AGAGGAGTTT	2940
CTGCAATTTA	GAAATGAATT	GCAACTAGAA	ATATCAAATA	GAAAGAGAGT	TTCGATGAAA	3000
ATTAATAAGA	AATACCTTGT	TGGTTCTGCG	GCACTTTGAT	TTTAAGTGTT	TGTTCTTACG	3060
AGTTGGGACT	GTATCAAGCT	AGAACGGTTA	AGGAAAATAA	TCGTGTTTCC	TATATAGATG	3120
GAAAACAAGC	GACGCAAAAA	ACGGAGAATT	TGACTCCTGA	TGAGGTTAGC	AAGCGTGAAG	3180
GAATCAATGC	TGAGCAAATC	GTCATCAAGA	TAACAGACCA	AGGCTATGTC	ACTTCACATG	3240
GCGACCACTA	TCATTATTAC	AATGGTAAGG	TTCCTTATGA	CGCTATCATC	AGTGAAGAAT	3300
TACTCATGAA	AGATCCAAAC	TATAAGCTAA	AAGATGAGGA	TATTGTTAAT	GAGGTCAAGG	3360
GTGGATATGT	TATCAAGGTA	GATGGAAAAT	ACTATGTTTA	CCTTAAGGAT	GCTGCCCACG	3420
CGGATAACGT	CCGTACAAAA	GAGGAAATCA	ATCGACAAAA	ACAAGAGCAT	AGTCAACATC	3480
GTGAAGGTGG	AACTCCAAGA	AACGATGGTG	CTGTTGCCTT	GGCACGTTCG	CAAGGACGCT	3540
ATACTACAGA	TGATGGTTAT	ATCTTTAATG	CTTCTGATAT	CATAGAGGAT	ACTGGTGATG	3600
СТТАТАТССТ	TCCTCATGGA	GATCATTACC	ATTACATTCC	TAAGAATGAG	TTATCAGCTA	3660
GCGAGTTGGC	TGCTGCAGAA	GCCTTCCTAT	CTGGTCGAGG	AAATCTGTCA	AATTCAAGAA	3720
CCTATCGCCG	ACAAAATAGC	GATAACACTT	CAAGAACAAA	CTGGGTACCT	TCTGTAAGCA	3780
ATCCAGGAAC	TACAAATACT	AACACAAGCA	ACAACAGCAA	CACTAACAGT	CAAGCAAGTC	3840
AAAGTAATGA	CATTGATAGT	CTCTTGAAAC	AGCTCTACAA	ACTGCCTTTG	AGTCAACGAC	3900

			/30			
ATGTAGAATC	TGATGGCCTT	GTCTTTGATC	CAGCACAAAT	CACAAGTCGA	ACAGCTAGAG	3960
GTGTTGCAGT	GCCACACGGA	GATCATTACC	ACTTCATCCC	TTACTCTCAA	ATGTCTGAAT	4020
TGGAAGAACG	AATCGCTCGT	ATTATTCCCC	TTCGTTATCG	TTCAAACCAT	TGGGTACCAG	4080
ATTCAAGGCC	AGAACAACCA	AGTCCACAAC	CGACTCCGGA	ACCTAGTCCA	GGCCCGCAAC	4140
CTGCACCAAA	тстталалта	GACTCAAATT	CTTCTTTGGT	TAGTCAGCTG	GTACGAAAAG	4200
PTGGGGAAGĢ	ATATGTATTC	GAAGAAAAGG	GCATCTCTCG	TTATGTCTTT	GCGAAAGATT	4260
PACCATCTGA	AACTGTTAAA	AATCTTGAAA	GCAAGTTATC	AAAACAAGAG	AGTGTTTCAC	4320
ACACTTTAAC	TGCTAAAAA	GAAAATGTTG	CTCCTCGTGA	CCAAGAATTT	TATGATAAAG	4380
CATATAATCT	GTTAACTGAG	GCTCATAAAG	CCTTGTTTGA	AAATAAGGGT	CGTAATTCTG	4440
ATTTCCAAGC	CTTAGACAAA	TTATTAGAAC	GCTTGAATGA	TGAATCGACT	AATAAAGAAA	4500
AATTGGTAGA	TGATTTATTG	GCATTCCTAG	CACCAATTAC	CCATCCAGAG	CGACTTGGCA	4560
AACCAAATTC	TCAAATTGAG	TATACTGAAG	ACGAAGTTCG	TATTGCTCAA	TTAGCTGATA	4620
AGTATACAAC	GTCAGATGGT	TACATTTTTG	ATGAACATGA	TATAATCAGT	GATGAAGGAG	4680
ATGCATATGT	AACGCCTCAT	ATGGGCCATA	GTCACTGGAT	TGGAAAAGAT	AGCCTTTCTG	4740
ATAAGGAAAA	AGTTGCAGCT	CAAGCCTATA	CTAAAGAAAA	AGGTATCCTA	CCTCCATCTC	4800
CAGACGCAGA	TGTTAAAGCA	AATCCAACTG	GAGATAGTGC	AGCAGCTATT	TACAATCGTG	4860
rgaaagggga	AAAACGAATT	CCACTCGTTC	GACTTCCATA	TATGGTTGAG	CATACAGTTG	4920
AGGTTAAAAA	CGGTAATTTG	ATTATTCCTC	ATAAGGATCA	TTACCATAAT	ATTAAATTTG	4980
CTTGGTTTGA	TGATCACACA	TACAAAGCTC	CAAATGGCTA	TACCTTGGAA	GATTTGTTTG	5040
CGACGATTAA	GTACTACGTA	GAACACCCTG	ACGAACGTCC	ACATTCTAAT	GATGGATGGG	5100
<b>SCAATGCCAG</b>	TGAGCATGTG	TTAGGCAAGA	AAGACCACAG	TGAAGATCCA	AATAAGAACT	5160
rcaaagcgga	TGAAGAGCCA	GTAGAGGAAA	CACCTGCTGA	GCCAGAAGTC	CCTCAAGTAG	5220
AGACTGAAAA	AGTAGAAGCC	CAACTCAAAG	AAGCAGAAGT	TTTGCTTGCG	AAAGTAACGG	5280
ATTCTAGTCT	GAAAGCCAAT	GCAACAGAAA	CTCTAGCTGG	TTTACGAAAT	AATTTGACTC	5340
PTCAAATTAT	GGATAACAAT	AGTATCATGG	CAGAAGCAGA	AAAATTACTT	GCGTTGTTAA	5400
AAGGAAGTAA	TCCTTCATCT	GTAAGTAAGG	AAAAAATAAA	CTAATGAAAA	ATGAAAGTCT	5460
CGATAAAGAG	GCTTTCATTT	TTATTATGTA	TATATGTAAA	ATTCTTGACA	AGCAATATTA	5520
AAAGAGTAA	ACTATTAACT	AGTTAATTAA	CCGGTTTATT	ACTTTATAGT	GAATCAAATA	5580
PACTTAAGAA	AAGAGGAAAG	AATGAAAATT	AATAAAAAAT	ATCTAGCAGG	TTCAGTGGCA	5640
STCCTTGCCC	TAAGTGTTTG	TTCCTATGAA	CTTGGTCGTC	ACCAAGCTGG	TCAGGTTAAG	5700

AAAGAGTC	TA	ATCGAGTTkC	TTATATAGAT	GGTGATCAGG	CTGGTCAAAA	GGCAGAAAAC .	5760
TTGACACC	AG	ATGAAGTCAG	TAAGAGGGAG	GGGATCAACG	CCGAACAAAT	CGTCATCAAG	5820
ATTACGGA	TC	AAGGTTATGT	GACCTCTCAT	GGAGACCATT	ATCATTACTA	TAATGGCAAG	5880
GTCCCTTA	TG	ATGCCATCAT	CAGTGAAGAG	CTCCTCATGA	AAGATCCGAA	TTATCAGTTG	5940
AAGGATTC	AG	ACATTGTCAA	TGAAATCAAG	GGTGGTTATG	TTATCAAGGT	AGATGGAAAA	6000
TACTATGT	TT	ACCTTAAGGA	TGCAGCTCAT	GCGGATAATA	TTCGGACAAA	AGAAGAGATT	6060
AAACGTCA	GA	AGCAGGAACA	CAGTCATAAT	CACGGGGGTG	GTTCTAACGA	TCAAGCAGTA	6120
GTTGCAGC	CA	GAGCCCAAGG	ACGCTATACA	ACGGATGATG	GTTATATCTT	CAATGCATCT	6180
GATATCAT:	TG	AGGACACGGG	TGATGCTTAT	ATCGTTCCTC	ACGGCGACCA	TTACCATTAC	6240
ATTCCTAA	GA	ATGAGTTATC	AGCTAGCGAG	TTAGCTGCTG	CAGAAGCCTA	TTGGAATGGG	6300
AAGCAGGG	ΑТ	CTCGTCCTTC	TTCAAGTTCT	AGTTATAATG	CAAATCCAGC	TCAACCAAGA	6360
TTGTCAGA	GΑ	ACCACAATCT	GACTGTCACT	CCAACTTATC	ATCAAAATCA	AGGGGAAAAC	6420
ATTTCAAG	cc	TTTTACGTGA	ATTGTATGCT	AAACCCTTAT	CAGAACGCCA	TGTGGAATCT	6480
GATGGCCT'	TA	TTTTCGACCC	AGCGCAAATC	ACAAGTCGAA	CCGCCAGAGG	TGTAGCTGTC	6540
CCTCATGG:	TA	ACCATTACCA	CTTTATCCCT	TATGAACAAA	TGTCTGAATT	GGAAAAACGA	6600
ATTGCTCG	TA	TTATTCCCCT	TCGTTATCGT	TCAAACCATT	GGGTACCAGA	TTCAAGACCA	6660
GAACAACC	AA	GTCCACAATC	GACTCCGGAA	CCTAGTCCAA	GTCCGCAACC	TGCACCAAAT	6720
CCTCAACC	AG	CTCCAAGCAA	TCCAATTGAT	GAGAAATTGG	TCAAAGAAGC	TGTTCGAAAA	6780
GTAGGCGA'	TG	GTTATGTCTT	TGAGGAGAAT	GGAGTTTCTC	GTTATATCCC	AGCCAAGGAT	6840
CTTTCAGC	AG	AAACAGCAGC	AGGCATTGAT	AGCAAACTGG	CCAAGCAGGA	AAGTTTATCT	6900
CATAAGCT	AG	GAGCTAAGAA	AACTGACCTC	CCATCTAGTG	ATCGAGAATT	TTACAATAAG	6960
GCTTATGA	CT	TACTAGCAAG	AATTCACCAA	GATTTACTTG	ATAATAAAGG	TCGACAAGTT	7020
GATTTTGA(	GG	CTTTGGATAA	CCTGTTGGAA	CGACTCAAGG	ATGTCyCAAG	TGATAAAGTC	7080
AAGTTAGTO	GG	ATGATATTCT	TGCCTTCTTA	GCTCCGATTC	GTCATCCAGA	ACGTTTAGGA	7140
AAACCAAA	TG	CGCAAATTAC	CTACACTGAT	GATGAGATTC	AAGTAGCCAA	GTTGGCAGGC	7200
AAGTACACA	AA	CAGAAGACGG	TTATATCTTT	GATCCTCGTG	ATATAACCAG	TGATGAGGG	7260
GATGCCTAT	ľG	TAACTCCACA	TATGACCCAT	AGCCACTGGA	TTAAAAAAGA	TAGTTTGTCT	7320
GAAGCTGAG	GA	GAGCGGCAGC	CCAGGCTTAT	GCTAAAGAGA	AAGGTTTGAC	CCCTCCTTCG	7380
ACAGACCAT	rc	AGGATTCAGG	AAATACTGAG	GCAAAAGGAG	CAGAAGCTAT	CTACAACCGC	7440

			732				
GTGAAAGCAG	CTAAGAAGGT	GCCACTTGAT		ACAATCTTCA	ATATACTGTA	7500	
GAAGTCAAAA	ACGGTAGTTT	AATCATACCT	CATTATGACC	ATTACCATAA	CATCAAATTT	7560	
GAGTGGTTTG	ACGAAGGCCT	TTATGAGGCA	CCTAAGGGGT	ATACTCTTGA	GGATCTTTTG	7620	
GCGACTGTCA	AGTACTATGT	CGAACATCCA	AACGAACGTC	CGCATTCAGA	TAATGGTTTT	7680	
GGTAACGCTA	GCGACCATGT	TCGTAAAAAT	AAGGTAGACC	AAGACAGTAA	ACCTGATGAA	7740	
GATAAGGAAC	ATGATGAAGT	AAGTGAGCCA	ACTCACCCTG	AATCTGATGA	AAAAGAGAAT	7800	
CACGCTGGTT	TAAATCCTTC	AGCAGATAAT	CTTTATAAAC	CAAGCACTGA	TACGGAAGAG	7860	
ACAGAGGAAG	AAGCTGAAGA	TACCACAGAT	GAGGCTGAAA	TTCCTCAAGT	AGAGAATTCT	7920	
GTTATTAACG	CTAAGATAGC	AGATGCGGAG	GCCTTGCTAG	AAAAAGTAAC	AGATCCTAGT	7980	
ATTAGACAAA	ATGCTATGGA	GACATTGACT	GGTCTAAAAA	GTAGTCTTCT	TCTCGGAACG	8040	
AAAGATAATA	ACACTATTTC	AGCAGAAGTA	GATAGTCTCT	TGGCTTTGTT	AAAAGAAAGT	8100	
CAACCGGCTC	CTATACAGTA	GTAAAATGAA	TGGAGCATAT	TTTATGGAGA	AGTAACCTTT	8160	
CGTGTTACTT	CTCTTTTTTA	GAAAAACGTA	ACAGA			8195	
(2) INFORM	ATION FOR SE	Q ID NO: 95	<b>5</b> :				
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 2004 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear							

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 95:

1	ттастаааа	GGAAAAAAGA	ACTGATTTCT	CAGTCCTTCA	TTAATCTTAT	TCCACACTAA	60
A	TAGGTATGG	GTAAACAGGT	TGTTGACCTT	GGTGAATCTC	GACTTCAACG	TCTTCGAATT	120
C	TTCTACGAT	TTCTTGAGCG	ATTTCATTGG	CAAGTTCTTC	GCTTCCGTCT	TCACCTACAT	180
A	GAAGGTTAC	GATTTCACTG	TCTTCATCCA	ACATATGTTT	CAAGGTTTCA	GTCAATGT IT	240
G	GTGCATATC	AGGGTTTGAC	ACAAGAATTT	TTCCATCCAC	CATACCTAAA	TTATCGTTTT	300
C	ATGGATTTC	TAAGCCATCG	ATCGTTGTAT	CACGCACGGC	TGTTGTGACG	CTTCCGCTAA	360
C	GACATCGCT	AAGAGCAGCT	GTCATACGCT	CTTGGTTTTC	TTCAATGGAC	TTGCTTGGAT	420
C	AAAGGCAAG	AAGACTTGTC	ATACCTTGAG	GAAGAGTGCG	AGCCTCTACC	ACTACCGCTG	480
G	TTGCTCCAA	AACTTCTGCC	GCAGATTGAG	CTGCCATGAA	GATGTTCTTG	TTGTTTGGCA	540
A	GAAGATGAT	GTTACGGGCA	TTAACCTGTT	CAACAGCCTT	GATAAAGTCT	TCTGTTGAAG	600
G	GTTCATGGT	TTGACCGCCT	TCGATAACAT	AATCCACGCC	TTGAGAACAG	AAGATATCTG	660

CTAGACCTTT	ACCAGCCACC	ACAGCAATCA	AAGCATACTC	TTTTTCTTCA	GCCGACTTGA	720
TAACTTGAGT	AGCTTCTTTC	TCAACCTGTG	CTTCGTGTTG	GTTACGCATA	TTGTCAACTT	780
TTACCTTGAC	CAAGCTACCA	TATTTGAGAC	CTTCTTGCAT	AACAAGTCCT	GGATCTTCTG	840
TATGAACATG	GACTTTGACA	ATTTCATCAT	CGTTAACAAC	AAGGAGAGAA	TCTCCAAGCT	900
CATCCAAGTA	GTTACGGAAT	TCATCGTAGT	CAAAATCTTT	AGCATAGGTT	GGACCTTGCT	960
TAAGAGCTAC	CATGATTTCA	GTACAGTAAC	CAAACGTGAT	GTCCTCAGTC	GCTACGTGAC	1020
CAGCTACAGA	CTTATGATGC	TCTACATTGA	TCATCTCACT	CATGTTGGCA	GGAGTCGCTA	1080
CAAAGTCCTC	AGATGCAATA	TATTCGCCAG	TAAGGGCTGA	AAGGAAACCT	TCGTAGATGA	1140
AGACCAATCC	TTGACCACCT	GAGTCCACAA	CGCCAACTTC	TTTCAATACT	GGAAGCATGT	1200
CTGGTGTTTT	AGCTAGAGCT	GTTTTAGCAC	CTTCCAAGGC	TGCGCGCATG	ACTTCAACAG	1260
CGTCATCTGT	TTGCTCAGCT	TTTTTCTTAG	CACCGATAGC	AGCTCCACGA	GAAACTGTTA	1320
AAATCGTTCC	TTCAACAGGT	TTCATCACTG	CCTTATAGGC	AACTTCCACA	CCTGATTGGA	1380
AGGCCAGAGC	CAAGTCTTGA	CCTGTTAACT	CGTCTTTATC	CTTGATAGCT	TGGGAAAATC	1440
CACGGAAAAG	CTGAGACGTA	ATCACTCCTG	AGTTCCCACG	CGCACCCATC	AAAAGCCCTT	1500
TGGCAAGAAT	GCTCGCTACT	TCTCCAACTG	TAGAAGCTGG	CTTGTCTGCA	ACTTCTTTAG	1560
CACCATTTTC	AATGGTCATT	CCCATATTTG	TCCCAGTATC	TCCATCTGGA	ACTGGAAAGA	1620
CGTTTAATGA	ATTGACATAT	TCAGCTTGCT	TATTCAAGCG	AGTTGATGCA	GCCTGCACCA	1680
TTTCTTGAAA	TAAGCTAGTA	GTAATTTTTG	ACACGGTTAT	TCTCCTACAA	CTTTGATATT	1740
TTGAATGTAG	ACATTTACAG	TCTGAGCAGT	AATTCCAAGC	TGGTTTTCCA	AGCTAAAGGC	1800
AACACGCTCT	TGAATGTTTT	TTGACACTTC	ACTAATCTTT	GTTCCGTAGC	TTAACACGGT	1860
ATATACATCA	ACTGCAATAC	TGCCATCTTC	GGCTGCCTTT	ACGACGACAC	CTTTAGAATA	1920
ATTTTCCTTA	CCTAGCAGGG	CTTGGAAATT	ATCTTTGAGG	GCATTTTTAC	TAGCCATACC	1980
GACCACACCA	GAAATCTCAG	TTGC				2004

## (2) INFORMATION FOR SEQ ID NO: 96:

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 11915 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double
   (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 96:

			734			
CCGGGTTGGG	CTGTTCGCCC	ATTAAAGCGG	CACCACAGCT	GGGTTCAGAA	CGTCGTGAGA	. 60
CAGTTCGGTC	CCTATCCGTC	GCGGGCGTAG	GAAATTTGAG	AGGATCTGCT	CCTAGTACGA	120
GAGGACCAGA	GTGGACTTAC	CGCTGGTGTA	CCAGTTGTCT	TGCCAAAGGC	ATCGCTGGGT	180
AGCTATGTAG	GGAAGGGATA	AACGCTGAAA	GCATCTAAGT	GTGAAACCCA	CCTCAAGATG	240
AGATTTCCCA	TGATTATATA	TCAGTAAGAG	CCCTGAGAGA	TGATCAGGTA	GATAGGTTAG	300
AAGTGGAAGT	GTGGCGACAC	ATGTAGCGGA	СТААТАСТАА	TAGCTCGAGG	ACTTATCCAA	360
AGTAACTGAG	AATATGAAAG	CGAACGGTTT	TCTTAAATTG	AATAGATATT	CAATTTTGAG	420
TAGGTATTAC	TCAGAGTTAA	GTGACGATAG	CCTAGGAGAT	ACACCTGTAC	CCATGCCGAA	480
CACAGAAGTT	AAGCCCTAGA	ACGCCGGAAG	TAGTTGGGGG	TTGCCCCCTG	TGAGATAGGG	540
AAGTCGCTTA	GCTCTAGGGA	GTTTAGCTCA	GCTGGGAGAG	CATCTGCCTT	ACAAGCAGAG	600
GGTCAGCGGT	TCGATCCCGT	TAACTCCCAT	TTTAGCGGGT	GTAGTTTAGT	GGTAAAACTA	660
CAGCCTTCCA	AGCTGTTGTC	GCGAGTTCGA	TTCTCGTCAC	CCGCTTTGAA	CTTTGTTCTT	720
TGTACCAAGT	TTTTGACTTG	GGCGCGTAGC	TCAGGTGGTT	AGAGCGCACG	CCTGATAAGC	780
GTGAGGTCGG	TGGTTCGAGT	CCACTCGTGC	CCATAGTGTT	TAGTCCATTA	CTAGGGGATT	840
GGAATATTAT	CTGTTCACTA	AGAGGACACG	GGCTTGTTCC	CGTATAAACT	ATTTTGGAGG	900
ATTACCCAAG	TCCGGCTGAA	GGGAACGGTC	TTGAAAACCG	TCAGGCGTGT	AAAAGCGTGC	960
GTGGGTTCGA	ATCCCACATC	CTCCTTTTAT	ATTAACGCGG	GATGGAGCAG	CTCGGTAGCT	1020
CGTCGGGCTC	ATAACCCGAA	GGTCGTAGGT	TCAAATCCTG	CTCCCGCAAT	AAGGCTCGGT	1080
AGCTCAGTTG	GTAGAGCAAT	GGATTGAAGC	TCCATGTGTC	GGCGGTTCGA	TTCCGTCTCG	1140
CGCCATTTAT	ATATTTTGGA	AGGGTAGCGA	AGAGGCTAAA	CGCGGCGGAC	TGTAAATCCG	1200
CTCCTTCGGG	TTCGGGGGTT	CGAATCCCTC	CCCTTCCATT	TTACGGGCAT	AGTTTAAAGG	1260
TAGAACTAAG	GTCTCCAAAA	CCTTCAGTGT	GGGTTCAATT	CCTACTGCCC	GTGTTAATAG	1320
AATTATGGCG	GGTGTGGTGA	AGTGGTTAAC	ACACCAGATT	GTGGCTCTGG	CATGCGTGGG	1380
TTCGATCCCC	ATCACTCGCC	TATTTTTAT	TGGGGTATAG	CCAAGCGGTA	AGGCAAGGGA	1440
CTTTGACTCC	CTCATGCGTT	GGTTCGAATC	CAGCTACCCC	AGTTACTATT	TGCCGGCGTG	1500
GCGGAATTGG	CAGACGCGCT	GGACTCAAAA	TCCAGTGTCC	GCAAGGACGT	GCCGGTTCGA	1560
ccccccccc	CGGTATAGTA	TAGTGTTAGG	AACGTTGTTA	TTCTTCGTTC	CTTTTTTATA	1620
TTATTTTTGG	TATAATTATA	GTTATTCAAA	TTTTATTTAG	ATTAAGAAAG	TGTAGGGGAG	1680
PATGTCTTGT	TCTATCGATT	TATTAAAACA	TCGGTATTTG	AAAAATATTA	AAGAAAATCC	1740
TGAATTGTTT	GTCGGAATTG	AGTTGGAGTA	TCCTGTTGCA	AGTTTAGAAG	GGGATGCTAC	1800

AGATGTTGAA	GTTATGAAGG	ATCTATTTCA	TTATTTAGTT	TCTACTTTGG	ATCTCACCGT	1860
AGCAAAGGTA	GATGATTTTG	GCAATCTGAT	CCAGTTAGTA	GATCCGATAA	GTCAGGATGC	1920
TATTTTATTT	GAAGTTTCCT	ATACAACGAT	TGAGTTTGCA	TTTGGTAAGG	CTGAAACGAT	1980
TCAAGAGGTC	GAAAATCGTT	TCAATAATTA	TATGAATGTA	ATTCAGAGAA	AGTTAGCTGA	2040
ATCAAATCAT	GCTATTGTTG	GCTGTGGTAT	CCATCCCAAC	TGGGATAAAA	ATGAGAATTG	2100
TCCAGTGGCT	TATCCACGCT	ATCAGATGTT	GATGGATTAT	TTGAATTTGA	GTAGAAATAT	2160
TATTAAATCA	GATTTACATC	ATTTCCCTGA	ATATGGTACT	TTTATCTGTG	GGAGCCAGGT	2220
TCAGCTGGAT	ATTTCAAAAA	CCAACTACTT	ACGGGTGATT	AATGCTTTTA	CTCAAATTGA	2280
AGCGGCTAAG	GCTTATTTAT	TTGCAAACTC	TGAATTTTCG	GGTGCGGATT	GGGATACGAA	2340
AATTTCAAGG	GATATTTTCT	GGGAAGAATC	TATGCATGGT	ATCTATCCAG	AGAATGTTGG	2400
GGTCAATGCT	AGACTCCTTA	ATGATGAAAC	TGATTTTTT	GACTATCTAA	ATCATTCTGC	2460
GATTTTTACT	GCGGAACGTG	ATGGGCAGAC	CTATTATTTT	TATCCTATTC	AGGCTGGGGA	2520
CTATTTGGCT	ACGTCCGAAA	TCCAAGCATT	TGCTCTGAAT	GGGGATGAGG	TTATTATTTA	2580
CCCCAAGAG	AAGGATTTTG	AAACTCATCG	TAGTTACCAG	TACCAAGATT	TAACGACTCG	2640
AGGAACAGTT	GAGTTTCGTA	GTGTGTGTAC	ACAGCCACTT	GATAGGACTT	TTGCTTCTGC	2700
AGCTTTTCAC	TTGGGATTAT	TGGTTAATTT	AGACAAGTTA	GAAGCTTACT	TAGAAACAGC	2760
ACCTTTCTTT	AAAGTATTTG	GTTATGATTA	CAAGTCTTTA	AGGAGACAAT	TTTCTAAGAA	2820
AAATCTTACA	GATGAGGAAG	AAACTACGAT	TATTGAATTT	TCCAAAGACT	TACTCCTACT	2880
AGCTGAGGAG	GGACTAGTGG	TGAGAAATAA	GGAAGAAATG	ACCTATTTAC	AGCCTTTGAG	2940
AGAAGAATTG	AGCCTATAAT	TTCTCTTATA	AAGGGAGAAT	TTTCTGAAAA	ATCATGATAT	3000
AATGGACGAG	ACTATAGATA	aaggatagag	AGTAATGACA	TTAGTTTATC	AATCAACGCG	3060
TGATGCCAAC	AATACAGTAA	CTGCCAGCCA	AGCAATTTTG	CAAGGTTTGG	CGACGGACGG	3120
CGGTTTGTTT	ACACCGGATA	CTTATCCAAA	GGTAGATTTG	AACTTTGACA	AATTGAAAGA	3180
TGCTTCTTAC	CAGGAAGTTG	CTAAGCTAGT	TTTGTCAGCA	TTTTTAGATG	ACTTTACAGT	3240
TGAGGAGTTG	GACTACTGTA	TCAACAATGC	CTACGATAGC	AAATTTGATA	CTCCAGCTAT	3300
TGCACCATTA	GTGAAATTAG	ATGGGCAATA	CAATTTGGAA	CTTTTCCATG	GTTCAACGAT	3360
TGCCTTTAAG	GATATGGCCT	TGTCTATTTT	GCCATACTTT	ATGACGACTG	CTGCTAAGAA	3420
ACATGGTTTG	GAGAACAAGA	TTGTTATCTT	GACAGCGACA	TCTGGTGACA	CGGGGAAAGC	3480
TGCTATGGCG	GGGTTTGCGA	ATGTGCCTGG	TACTGAGATT	ATCGTCTTTT	ATCCAAAGGA	3540

			736			
TGGTGTCAGC	AAGATTCAAG	AGTTACAAAT	GACCACTCAG	ACTGGCGACA	ATACTCATGT	3600
TATTGCTATT	GATGGTAACT	TTGACGATGC	GCAAACAAAT	GTGAAGCACA	TGTTTAACGA	3660
CGTGGCTCTT	CGTGAAAAAT	TGACTACCAA	CAAGTTGCAA	TTTTCATCAG	СТААСТСТАТ	3720
GAACATTGGT	CGTCTGGTGC	CACAAATTGT	TTATTATGTT	TATGCTTACG	CTCAATTGGT	3780
TAAGACTGGT	GAAATTGTAG	CTGGTGAAAA	GGTTAACTTC	ACAGTACCAA	CAGGAAACTT	3840
TGGAAATATC	TTGGCTGCCT	TTTATGCCAA	ACAAATTGGT	TTGCCAGTTG	GTAAATTAAT	3900
CTGTGCTTCA	AATGACAACA	ATGTTTTGAC	AGACTTCTTT	AAAACACGTG	TCTATGACAA	3960
AAAACGTGAG	TTTAAGGTAA	CAACCAGCCC	ATCTATGGAT	ATCTTGGTAT	CTTCAAACTT	4020
GGAGCGCTTG	ATTTTCCATC	TTTTGGGAAA	TAATGCTGAA	AAGACAACTG	AACTTATGAA	4080
TGCCTTGAAC	ACGCAAGGAC	AATATAAGTT	GACAGACTTT	GATGCAGAGA	TTTTGGACCT	4140
CTTTGCAGCT	GAATATGCGA	CTGAGGAAGA	AACGGCAGCA	GAGATCAAGC	GTGTTTGTGA	4200
GTTAGATTCT	TATATCGAGG	ACCCTCATAC	AGCTGTTGCT	TCAGCAGTTT	АТАААААТА	4260
CCAATCGGCC	ACTGGAGATG	TAACTAAGAC	AGTGATTGCT	TCAACAGCTA	GTCCATACAA	4320
GTTCCCAGTA	GTTGCAGTAG	AAGCTGTAAC	TGGAAAAGCA	GGTTTAACAG	ACTTTGAAGC	4380
CTTGGCTCAA	TTACATGAAA	TCTCAGGCGT	TGCAGTGCCA	CCAGCAGTTG	ATGGGCTTGA	4440
AATAGCTCCA	ATTCGTCACA	AGACAACAGT	GGCAGCTGCT	GACATGCAAG	CAGCGGTTGA	4500
GGCTTATTTA	GGACTTTAAG	ACAGAGGGAG	CAAACTCGGT	TGGGAAACCA	ACTGAGTTTC	4560
TTTTCATCAG	GAGGAGAGAT	TGTTTAAGAA	AAATAAAGAC	ATTCTTAATA	TTGCATTGCC	4620
AGCTATGGGT	GAAAACTTTT	TGCAGATGCT	AATGGGAATG	GTGGACAGTT	ATTTGGTTGC	4680
TCATTTAGGA	TTGATAGCTA	TTTCAGGGGT	TTCAGTAGCT	GGTAATATTA	TCACCATTTA	4740
TCAGGCGATT	TTCATCGCTC	TGGGAGCTGC	TATTTCCAGT	GTTATTTCAA	AAAGCATAGG	4800
GCAGAAAGAC	CAGTCGAAGT	TGGCCTATCA	TGTGACTGAG	GCGTTGAAGA	TTACCTTACT	4860
ATTAAGTTTC	CTTTTAGGAT	TTTTGTCCAT	CTTCGCTGGG	AAAGAGATGA	TAGGACTTTT	4920
GGGGACGGAG	AGGGATGTAG	CTGAGAGTGG	TGGACTGTAT	CTATCTTTGG	TAGGCGGATC	4980
GATTGTTCTC	TTAGGTTTAA	TGACTAGTCT	AGGAGCCTTG	ATTCGTGCAA	CGCATAATCC	5040
ACGTCTGCCT	CTCTATGTTA	GTTTTTTATC	CAATGCCTTG	AATATTCTTT	TTTCAAGTCT	5100
AGCTATTTTT	GTTCTGGATA	TGGGGATAGC	TGGTGTTGCT	TGGGGGACAA	TTGTGTCTCG	5160
TTTGGTTGGT	CTTGTGATTT	TGTGGTCACA	ATTAAAACTG	CCTTATGGGA	AGCCAACTTT	5220
TGGTTTAGAT	AAGGAACTGT	TGACCTTGGC	TTTACCAGCA	GCTGGAGAGC	GACTTATGAT	5280
GAGGGCTGGA	GATGTAGTGA	TCATTGCCTT	GGTCGTTTCT	TTTGGGACGG	AGGCAGTTGC	5340

TGGGAATGCA	ATCGGAGAAG	TCTTGACCCA	GTTTAACTAT	ATGCCTGCCT	TTGGCGTCGC	5400
TACGGCAACG	GTCATGCTGT	TGGCCCGAGC	AGTTGGAGAG	GATGATTGGA	AAAGAGTTGC	5460
TAGTTTGAGT	AAACAAACCT	TTTGGCTTTC	TCTGTTCCTC	ATGTTGCCCC	TGTCCTTTAG	5520
TATATATGTC	TTGGGTGTAC	CATTAACTCA	TCTCTATACG	ACTGATTCTC	TAGCGGTGGA	5580
GGCTAGTGTT	CTAGTGACAC	TGTTTTCACT	ACTTGGGACC	CCTATGACGA	CAGGAACAGT	5640
CATCTATACG	GCAGTCTGGC	AGGGATTAGG	AAATGCACGC	CTCCCTTTTT	ATGCGACAAG	5700
TATAGGAATG	TGGTGTATCC	GCATTGGGAC	AGGATATCTG	ATGGGGATTG	TGCTTGGTTG	5760
GGGCTTGCCT	GGTATTTGGG	CAGGGTCTCT	CTTGGATAAT	GGTTTTCGCT	GGTTATTTCT	5820
ACGCTATCGT	TACCAGCGCT	ATATGAGCTT	GAAAGGATAG	GAAATGCAAA	AAACAGCTTT	5880
TATTTGGGAT	TTAGACGGGA	CTTTATTGGA	CTCTTACGAA	GCGATTTTAT	CAGGGATTGA	5940
GGAGACTTTT	GCTCAGTTTT	СТАТТССТТА	TGATAAGGAG	AAGGTGAGAG	AGTTTATCTT	6000
CAAGTATTCG	GTGCAAGATT	TGCTTGTGCG	GGTGGCAGAA	GATAGAAATC	TGGATGTTGA	6060
GGTGCTAAAT	CAGGTGCGTG	CCCAGAGTCT	GGCTGAGAAG	AATGCTCAGG	TAGTTTTGAT	6120
GCCAGGTGCG	CGTGAGGTGC	TAGCTTGGGC	AGACGAATCA	GGAATTCAGC	AGTTTATATA	6180
TACTCATAAG	GGGAACAACG	CTTTTACCAT	TCTCAAGGAC	TTGGGGGTGG	AATCCTATTT	6240
TACAGAGATT	TTAACCAGTC	AGAGTGGCTT	TGTGCGGAAG	CCAAGTCCAG	AAGCGGCTAC	6300
CTATCTGCTA	GATAAGTATC	AGTTGAATTC	TGATAATACT	TATTATATAG	GGGATCGGAC	6360
TCTGGATGTG	GAATTTGCCC	AGAATAGTGG	GATTCAAAGC	ATCAACTTTT	TAGAGTCTAC	6420
TTATGAAGGG	AATCACAGGA	TTCAAGCGTT	AGCAGATATT	TCCCGTATTT	TTGAGACTAA	6480
GTGATAAAAA	GATTGTGTCA	GTTTTGTGAC	AGAGACCTAA	CAAACTATTT	CAAGTAACCT	6540
AGTTTGTTAC	AAGGAATAGA	CAGTTCTGTT	AAATAGGCCC	GAGAGGGCTT	TTTTTCTACA	6600
TTTTTTGTGT	TATGATAGAC	AGGTACTCAT	TTGAAAGGAA	TTTGAAAGAA	TGAAGAAAAG	6660
AATGTTATTA	GCGTCAACAG	TAGCCTTGTC	ATTTGCCCCA	GTATTGGCAA	CTCAAGCAGA	6720
AGAAGTTCTT	TGGACTGCAC	GTAGTGTTGA	GCAAATCCAA	AACGATTTGA	CTAAAACGGA	6780
СААСААААСА	AGTTATACCG	TACAGTATGG	TGATACTTTG	AGCACCATTG	CAGAAGCCTT	6840
GGGTGTAGAT	GTCACAGTGC	TTGCGAATCT	GAACAAAATC	ACTAATATGG	ACTTGATTTT	6900
CCCAGAAACT	GTTTTGACAA	CGACTGTCAA	TGAAGCAGAA	GAAGTAACAG	AAGTTGAAAT	6960
CCAAACACCT	CAAGCAGACT	CTAGTGAAGA	AGTGACAACT	GCGACAGCAG	ATTTGACCAC	7020
TAATCAAGTG	ACCGTTGATG	ATCAAACTGT	TCAGGTTGCA	GACCTTTCTC	AACCAATTGC	7080

			738			
AGAAGTTACA	AAGACAGTGA	TTGCTTCTGA	AGAAGTGGCA	CCATCTACGG	GCACTTCTGT	7140
CCCAGAGGAG	CAAACGACCG	AAACAACTCG	CCCAGTTGAA	GAAGCAACTC	CTCAGGAAAC	72,00
GACTCCAGCT	GAGAAGCAGG	AAACACAAGC	AAGCCCTCAA	GCTGCATCAG	CAGTGGAAGT	7260
AACTACAACA	AGTTCAGAAG	CAAAAGAAGT	AGCATCATCA	AATGGAGCTA	CAGCAGCAGT	7320
ттстасттат	CAACCAGAAG	AGACGAAAAT	AATTTCAACA	ACTTACGAGG	CTCCAGCTGC	7380
GCCCGATTAT	GCTGGACTTG	CAGTAGCAAA	ATCTGAAAAT	GCAGGTCTTC	AACCACAAAC	7440
AGCTGCCTTT	AAAGAAGAAA	TTGCTAACTT	GTTTGGCATT	ACATCCTTTA	GTGGTTATCG	7500
TCCAGGAGAC	AGTGGAGATC	ACGGAAAAGG	TTTGGCTATC	GACTTTATGG	TACCAGAACG	7560
TTCAGAATTA	GGGGATAAGA	TTGCGGAATA	TGCTATTCAA	AATATGGCCA	GCCGTGGCAT	7620
TAGTTACATC	ATCTGGAAAC	AACGTTTCTA	TGCTCCATTC	GATAGCAAAT	ATGGGCCAGC	7680
TAACACTTGG	AACCCAATGC	CAGACCGTGG	TAGTGTGACA	GAAAATCACT	ATGATCACGT	7740
TCACGTTTCA	ATGAATGGAT	AAACCCGACT	TGATAACATC	ATTTTGACGA	ATGAGATCTA	7800
GCTTTCGTGA	TGGAAAGCGA	TTCTCGTTCG	TTTTTTTTTT	GTCATACTCT	TCGAAAATCT	7860
CTTCAAACCA	CGTCAGTTTT	ATCTGAAACT	TCAAAGCTGT	GCTTTGAGCA	ACCTGCGACT	7920
AGCTTCCTAG	TTTGCTTTTT	GATTTTCATT	GAGTATCAAT	TTGAATGGAA	AATGGAAAGT	7980
TATCATCTTG	TAATGAGTTA	AGCAACATTC	TTGCAATCTA	TTTTACTTTA	TATCACAATT	8040
AATTAGTCAA	ATATTGATAA	АТСААТАААА	AGAGAGGGGA	AGAAATGCTA	GAGATTCAAG	8100
ATTTACTGTA	TCAACTCCGC	TTGTCTGAGC	AAGCGAGTAC	GCAATTGTTT	GAAAAAAGGC	8160
TTGGGATTAG	TTTGACACGG	TATCAGATTT	TACTGTTTTT	GCTGGAGCAT	TCTCCTTGTA	8220
ACCAAATGGC	GGTTCAGGAG	CGTTTGAAAA	TTGATCAGGC	TGCTTTGACA	CGGCATTTCA	8280
AAATTTTGGA	AACGGAAGGT	TTGGTGGAGC	GTCATCGTAA	TCCTGAAAAT	CAGCGGGAAG	8340
TGTTGGTAGA	GGCTGCGAAG	TATGCCAAGG	AGCAGTTAGT	GGTGAATCCC	CCTCTGCAAC	8400
ATATCAGGGT	TAAGGAAGAG	ATAGAAAGTA	TCTTAACAGA	GTTTGAGAGA	ACAGAACTCA	8460
GCCGTTTATT	AAATAAATTG	GTTTTGGGTA	TTGAAAATAT	AGAAATTTAA	GGAGAAATAG	8520
ATGTCAATTA	TTTTAACAAC	GATCGTTGCT	TTGGAGCATT	TTTACATTTT	TTATTTGGAA	8580
AGTATTGCCA	CGCAATCAGA	TGCGACTAGT	CGTGTATTTA	ATATGGAAAA	GGAAGAATTG	8640
GCTCATCCGT	CAGTAAGTTC	ATTGTTCAAA	AATCAAGGAA	TTTATAAGGC	TCTGCTAGGA	8700
GTCTTTCTCT	TGTATGTCAT	TTATTTCTCA	CAGAATTTAG	AAATTGTGAC	TATTTTTGTC	8760
TTATTTGTGA	TTGGTGCTGC	GACTTACGGC	TCTTTAACAG	CGGATAAAAA	AATTATTTTG	8820
AAACAAGGTG	GATCAGCTAT	TTTGGCCTTG	ATTAGTATTT	TACTCTTTAA	ATACACTTGA	8880

AGGTCGATTC	TAATCTCGCT	AATCCTTTTT	AATCCAGAAT	AAGGGAAATA	TGTTATACTT	8940
GTTTTTAAGA	AAAAAGTCTC	ATTGAATTGG	TTTTGAGGAG	TTAGAAATGA	AAGTATTAGT	9000
GACAGGTTTT	GAGCCCTTTG	GAGGGGAAAA	GGGCAATCCA	GCTTTGGAGG	CCATTAAAGG	9060
TTTACCAGCT	GAAATCCATG	GTGCTGAGGT	CCGTTGGCTA	GAGGTGCCGA	CAGTTTTTCA	9120
CAAATCTGCT	CAAGTATTGG	AAGAAGAGAT	GAATCGTTAT	CAACCTGACT	TTGTCCTTTG	9180
TATTGGGCAA	GCTGGTGGAA	GAACTAGTTT	GACACCTGAA	CGAGTGACCA	TTAATCAAGA	9240
CGATGCATGC	ATTTCTGATA	ACGAAGATAA	TCAACCGATT	GACCGTCCCA	TTCGCCCAGA	9300
TGGTGCTTCG	GCCTACTTTA	GTAGTTTGCC	GATTAAAGCG	ATGGTTCAAG	СТАТАААААА	9360
AGAGGGCTTA	CCGGCCTCTG	TTTCCAATAC	GGCAGGGACT	TTTGTCTGCA	GCCATTTGAT	9420
GTATCAGGCT	CTCTATTTGG	TAGAAAAGAA	ATCTCCATAT	GTTAAGGCAG	GTTTTATGCA	9480
TATTCCTTAT	ATGATGGAAC	AGGTGGTGAA	CAGACCGACT	ACTCCAGCTA	TGAGTTTAGT	9540
GGATATTCGG	CGAGGGATAG	AAGCAGCAAT	CGGCGCTATA	ATAGAACATG	GAGATCAGGA	9600
ACTCAAGTTG	GTAGGCGGAG	AAACTCATTG	ATAGAAAAA	GCTTGAGGGG	AAAAACCTTC	9660
AAGCTTTTGG	ACGTTTTCGG	GCCAATACTG	CTCGGTAAAA	CATAATTTTA	GTGCATTGGA	9720
TATAAGGTAG	GAGTGAAAAA	CTAGCAATGC	CAAAGGTAAT	CCAATTGAGG	AAGTACCAAG	9780
GAAGAAGCTG	TAAATCTAGG	ACAAAGTGCT	GGAACTTGTA	GCCCTTCATA	AAGGAACGGC	9840
TAGTTTTTAG	GATTCGTCTT	GGTGGGACCT	GTCCTAGGTC	TAGACTATAA	CAGAGAAGAA	9900
ATTCCACCTG	TGAATAGGCA	TAATACTGTG	GAATATAGAG	GATATTTCCT	ACAATGATCA	9960
AGATGAGACT	TGCAAGAAAG	TAGAGTCCAA	AGACCATGAG	GAAACGCTCG	GTTTCAACTG	10020
ATGAGAGATC	TAGATTTGGA	AACTCAGGAT	GTAGGGTGAC	GAATTTTTTG	GCTAAAAAGC	10080
тастатаааа	GAGGAGGTAA	ATCCCAAGTA	AATTAGGGAT	ACTCCATAAA	AAGAGATAGA	10140
AACGTTTGAG	AAGTAGGGTC	AAAAAGGTTT	GAGAAAAGCG	CTCCTCATCA	AAGAGAGCTA	10200
GGCTGTTTTT	TACAGATGGC	TCCGTTTTAG	AATCTTTCAT	GAGTGTCAGT	GTTGCATAGA	10260
CGGAACTGGT	CAAAAGAATA	GTCCCGATAA	AGGAGACTAG	TAGAGGAAAG	AGGTAGGTTT	10320
GAAGTATTTG	GCCAAGTATG	CTGAAAAATG	GCTGTTCTAA	AACAGTCCCG	TGGATCCGAG	10380
ATAAGGGATT	AAGAAAACCA	GATAAGATGA	CCAGCATACT	GGGAAGGATA	TAGAGGAGAA	10440
AGAGACGGGG	GGTGTCAGCC	TGAAAATGTT	TTGACTCCTG	ACGAATTGTT	TTTAAATCAA	10500
TTTTTGGATA	GTTCATTCTC	ттаттатасс	ATAGTTCTTA	TACATAGTTC	GTGACAGTTC	10560
CTACTTTTTT	TGATAAAATC	ATACAGTGTG	TCCTTGGGCA	CACTGTATGA	ACTGGGACTG	10620

PCTTTCCCAG	CTTCGGAGGT	AAAAAATGTC	740 AGATTCACCA	ATCAAATATC	GTTTGATTAA	10680
GAAAGAAAAA	CACACAGGAG	CTCGTCTGGG	AGAAATCATC	ACTCCCCACG	GTACCTTTCC	10740
GACACCTATG	TTTATGCCAG	TTGGGACACA	AGCCACTGTC	AAAACTCAGT	CACCTGAAGA	10800
attgaaggag	ATGGGTTCGG	GAATTATCCT	ATCAAACACC	TATCATCTCT	GGCTTCGCCC	10860
rggagatgaa	CTCATTGCAC	GCGCTGGTGG	TCTCCACAAG	TTCATGAATT	GGGACCAGCC	10920
PATCTTGACÀ	GATAGTGGTG	GTTTTCAGGT	ТТАТТСТТТА	GCAGATAGCC	GTAATATCAC	10980
AGAAGAAGGA	GTAACCTTTA	AAAATCATCT	AAATGGTTCT	AAGATGTTCC	TATCCCCAGA	11040
AAAAGCCATC	TCTATTCAGA	ATAATCTGGG	TTCAGACATC	ATGATGTCCT	TTGATGAATG	11100
rcctcagttt	TATCAACCTT	ATGACTACGT	TAAGAAATCG	ATCGAGCGTA	CCAGCCGTTG	11160
GCTGAGCGT	GGTTTGAAGG	CTCACCGTCG	TCCACATGAC	CAAGGTTTGT	TTGGAATTGT	11220
GCAAGGTGCA	GGATTTGAAG	ACCTTCGCCG	CCAATCAGCT	CATGATCTTG	TCAGCATGGA	11280
PTTCTCAGGC	TACTCTATCG	GTGGTTTGGC	AGTGGGAGAA	ACCCATGAAG	AGATGAATGC	11340
GTCTTGGAC	TTTACAACTC	AACTGCTGCC	TGAAAATAAA	CCTCGTTATC	TGATGGGTGT	11400
GGAGCGCCA	GATAGCTTGA	TCGATGGGGT	CATTCGTGGG	GTGGATATGT	TTGACTGTGT	11460
CTTACCGACT	CGAATTGCTC	GTAACGGGAC	TTGTATGACC	AGTCAAGGAC	GTTTGGTTGT	11520
GAAAAATGCC	CAGTTTGCTG	AGGACTTTAC	GCCACTGGAT	CCTGAGTGTG	ATTGCTACAC	11580
ATGTAATAAC	TATACACGCG	CTTACCTTCG	TCACCTGCTC	AAGGCTGATG	AAACCTTTGG	11640
PATCCGCTTG	ACTAGCTACC	ACAATCTTTA	CTTCTTGCTT	AACCTGATGA	AGCAAGTGCG	11700
ACAAGCCATC	ATGGATGACA	ATCTCTTGGA	ATTCCGTGAG	TATTTTGTGG	AAAAATATGG	11760
TATAATAAG	TCAGGACGTA	ATTTCTAAAA	TGGAATTGAT	таааааата	CCTAAGTTTT	11820
TCTTAGGAT	TTTTCTTCTT	TTTTTGATAG	AATAAAGTGT	ACAATGAAAG	GAAGAATAAA	11880
	CATTAAATGG	TTTTCCTCGA	TTAGG			11915
AL THRONY						

### (2) INFORMATION FOR SEQ ID NO: 97:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 9069 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: double
    (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 97:

GAGAGGGCAA CAGTTCTATC GCTTCAAATT TTTTCTTGGT TTGCAGATAT TCAAGAATCG 6Ò GGAGTTTTTC TATAGTATTC GGCAGATTTA TTACAGCCAA GCATCTCAAA AATACGGACA 120

GCATCCTCCA	TCTTTTTCTG	GCCTTCCTTG	ACTCTACCTT	GCTTGCTATC	AAGGAGACCT	180
TCTGCCCACA	GATAAACAAT	TCGGAAATAG	GTCTCATTTT	CCTTGTAGAA	ATGCTCTTCG	240
ATAACACGTT	ATAAATAATA	GGCATTGGTA	AATTCTTCAC	ACTCAATACT	AGCTAAAAAG	300
CCATTCAATA	GTATAGTATG	AAAAAGGTTT	CGATTGCCAG	ACATTTCCAT	TAGAAAATCA	360
GATTTACGTA	CCATTTCTCG	TACATATCTA	GTAAAAAGAG	AAACAGATAA	AAATGGAGAA	420
CTGACTGAAA	ATAAATTGAG	TTCATAGATT	CCCCAGATCT	CGGTAGAAAA	CAAATAATCA	480
TGAAGGACTT	TTCCTTCCTC	TGCTGTTAAG	TCTACCCTTT	CATCTATGCT	CTTCATATAA	540
GACTTGATAA	TAATGGCATT	TAGAATATGT	TTCTGTTTGT	TGTGAGAATG	GGCATGCTTT	600
TATACTCCCT	GCGATATAAG	TCCTCAAGAG	GTGCTATATT	CTTTGGTTCC	AAGACATCTG	660
TAATTTCTTT	TCTCAACTCA	GAATCTGTAT	CATACTGGAA	ACCTCTTGCC	AGAAAGAGGA	720
TCTCCTCCAC	ACTGGCAGAT	ATATTTTCCA	GAGCAAATAG	AAACTTTTCC	ACCGAAAGCT	780
CACTCTGACC	TGTTTCAAAA	CGGGACAACA	TAGACGGCGA	AAATTGTCCT	CCGGTTGCTT	840
GTCTCAGTGA	GATATTTCTT	GACTCTCGTA	ATTGTCTAAA	GACTTTTCCA	ATCTGCTCCA	900
TAGACTTCCC	CTTGATTCCG	TATTTTCTTC	ATTTTATCAT	ATTTTTCAGA	AAATTCATCA	960
AAAACTTGCC	AAATTGTCAG	AATTATGAGA	AAATAGAGGA	TATTTATCAC	GTGGAGGGAC	1020
TGCTATGAGA	GACGATATCA	AAATCAATGA	CCGTGCTTTG	GCCTTGCAAG	ACCAAATTAT	. 1080
CGAAAAACTA	GAGAAAGTTT	TTGATACAGA	TGTGGAATTG	GATGTTTACA	ATCTAGGTCT	1140
GATTTATGAA	ATCAATCTGG	ATGAAACGGG	GCTCTGCAAG	ATTGTCATGA	CCTTCACCGA	1200
TACTGCCTGT	GATTGCGCCG	AAAGCCTGCC	TATTGAAATC	GTGGCAGGTC	TGAAACAAAT	1260
CGAGGGTATC	AAAGATATCA	aggttgaagt	TACCTGGTCG	CCTGCTTGGA	AAATCACACG	1320
AATCAGTCGC	TATGGCCGTA	TTGCCCTTGG	ACTACCACCT	CGTTAAGCAG	ACCAATCACT	1380
TTTAAAGATG	AAAATCAAAG	GGCAAACTAG	AAAACTAGCC	GCAGGTTGCT	CAAAACACTG	1440
TTTTGAAGTT	ATGGATAGAA	CTGACGAAGT	CAGCTCAAAA	CACTGTTTTG	AGGTTGTGGA	1500
TAGAACTGAC	GAAGTCAgCT	CAAAACACTG	TTTTGAGGTT	GTGGATAGAA	CTGACGAAGT	1560
CAGCCCAAAA	CACTGTTTTG	AGGTTGTGGA	TAGAACTGAC	GAAGTCAGTA	ACCATACCTA	1620
CGGCAAGGCG	ACGTTGACGT	Gatttgaaga	GATTTTCGAG	TATGAGTTTA	TTTTTTACCT	1680
GACTTGTCCA	TATTCCAGAA	GTCTGTCACG	GCTCCGCGTG	AAGCAGATGA	TACGATGTGG	1740
GCATATTTAC	CGAGGACACC	ACGGCTGTAA	AGTGGTGGCA	AGGTTGTTTC	TGCCTTGCGT	1800
TTTTCAAGTT	CTTCTTCGGA	TACGGCCATA	GAAATTTCTT	TGGTATCTTG	GTCAACCGTA	1860

			142			
ACGATATCGC	CGGTACGGAG	ATAGGCAATT	GGTCCACCAT	CCTGAGCTTC	AGGAGCGATA	1920
TGTCCAACAA	CCAGACCATA	AGTACCACCA	GAGAAACGTC	CGTCCGTCAA	GAGGGCCACC	1980
TTATCTCCCT	GACCTTTACC	AACAATCATT	GAAGAAAGTG	ATAGCATCTC	AGGCATACCA	2040
GGACCACCTT	TAGGTCCAAC	AAAACGAACA	ACGACTACAT	CGCCATCAAC	GATTTCATCT	2100
GTCAGAACGG	CCTGAATCGC	ATCTTCTTCT	GAGTCAAAGA	CCTTAGCTGG	CCCAACGTGA	2160
CGACGCACTT	TAACACCTGA	TACCTTGGCA	ACTGCACCGT	CAGGAGCAAG	GTTCCCGTTC	2220
AAGATGATAA	GCGGACCATC	CGCACGTTTT	GGATTTTCAA	GTGGCATGAT	AACTTTTTGG	2280
CCTGGAGTCA	AGTCTGCAAA	GTCAGCCAAG	TTTTCAGCTA	CAGTCTTACC	AGTACATGTG	2340
ATGCGATCTC	CGTGAAGGAA	ACCATTTGCC	AACAAATACT	TCATAACCGC	AGGGACACCA	2400
CCGACTTCGT	AGAGGTCTTG	GAAGACATAC	TGACCAGATG	GTTTCAAGTC	GGCCAAGTGA	2460
GGCACACGTT	CTTGAATCGT	ATTGAAGTCC	TCAAGTGACA	AGTCAACATT	TGCGGCATGG	2520
GCAATGGCGA	GCAAGTGAAG	AGTGGCGTTT	GTAGAACCAC	CGAGAGCCAT	CGTTACAGTG	2580
ATAGCATCTT	CAAAGGCTTC	ACGAGTCAAG	ATATCTGATG	GTTTGAGACC	AAGTTCCAAC	2640
ATCTTAACAA	CAGCACGTCC	TGCTGCTTCG	ATATCTTCTT	TCTTATCAGC	TGATTCAGCT	2700
GGGTGAGAGG	ATGACCCTGG	CAAACTCATC	CCTAGAACTT	CGATAGCAGT	TGCCATGGTA	2760
TTAGCAGTAT	ACATACCACC	ACAACCACCA	GGGCCAGGGC	AGGCATTACA	TTCAAGACGT	2820
TTCACGTCCT	CAGCTGTCAT	GTCACCGTGG	TTCCATTTTC	CGATACCTTC	AAAGACAGAA .	2880
ACCAAGTCGA	TATCTTTACC	ATCAAGATTT	CCCGGTGCAA	TAGTTCCACC	ATAGGCGAAA	2940
ATAGCTGGGA	TATCCATATT	AGCAATAGCA	ATCATAGATC	CAGGCATGTT	CTTGTCACAG	3000
CCACCGATAG	CGACGAAGGC	ATCCACGTTG	TGACCACTCA	TAGCCGCCTC	GATGGAGTCC	3060
GCGATGATGT	CACGAGATGT	TAGAGAGAAA	CGCATACCAG	GCGTTCCCAT	AGCGATCCCG	3120
TCCGCTACGG	TAATGGTTCC	AAACTGTACA	GGCCAAGCGC	CTGCAGATTT	GACACCTTCT	3180
TTAGCCAGTT	TCCCGAAATC	ATGCAAGTGA	ATGTTACATG	GTGTATTTTC	CGCCCAAGTC	3240
GAAATCACTC	CCACAATCGA	TGTTTCAAAG	TCCTTATCTG	TCATACCAGT	CGCACGAAGC	3300
ATAGCACGGT	TAGGTGATTT	AACCATGCTG	TCATAAATGC	TACTGCGGTG	ACGTTTATCT	3360
AATTCAGTCA	TCTTATCCCT	CCCATTTCAG	TTTTTACTAT	TATAGCACAA	TTTTCGCATG	3420
AAGAACAGAA	TAAAATTCTT	GAATTTTCAG	AAAATTCTAT	ACACATGTGA	AATATTTAAA	3480
ATTAAAAACA	ACAAAGCGGA	TTAGTGCACT	TTCTGATGAC	CAGAATATGC	TTTTTAATCC	3540
GCTTTCTTTA	AATAACGTAC	TGTAATTTTT	ACAGAAATTC	TTTCAAATAA	GTGTATTTAA	3600
CATCTATCTT	GCATTATAAA	TTTCTAGAAC	CTTCTCTTTT	ATATTCGATT	CACTCAAACC	3660

<b>ЧТАСТСАТТА</b>	AGAAGATAAT	CCATTTTCCC	TACTTGACCG	AATCTTTCTT	GAACACCCAT	3720
CCGATGAATT	TTTGTTATTC	CATCATCAGA	GAATAATTCA	CATAAAGCAC	TGCCAATTCC	3780
ACCTATCTGA	TTGTGGTTTT	CTACAGTAAA	TATAGTTTTT	CCACTTAACA	TTGTTTTTAT	3840
CTGTTCTGGT	ATCGGTTTGA	TTCTAAATAA	ATCTATCACA	CCTACTGAAT	AACCTAATTT	3900
AGACAGTTCA	TCTGCAACTC	GAATACTTGG	AGCAACCATT	ATGCCAGAAG	CAACGATTAC	3960
AGATCTTCA	CCATGCCTTA	ACTCAATGTA	GCCTTTAGAA	AAATCTTCTC	CACCTTGATA	4020
CACAGGAACT	GGAGCTTTTC	TAATTGTTCG	AATATATTT	AGTCCTTTTA	AGTCTAATGT	4080
CTGGTTCAAT	ATTTCACGAA	ATTGGATATC	ATCAGTTGCT	TCGAAAATGA	TTGATTTAGG	4140
AATT <b>AAA</b> CGT	AACAATCCAA	TTTCTTCAAA	TGGCATATGT	GTTCCACCAT	TCATCTCTGC	4200
CGTTACTCCT	GCATCTGATC	CAATCACAGT	GGCATCCAAT	TGTGCGTATC	CAAGAGAAAT	4260
aataat <sub>,</sub> tga	TCAAATACTC	TTCGTGAAGC	AAAAGGACCA	AATGTATGAA	GATAAGGTCT	4320
AAACCCCTGA	ATAGACAAGC	CTGCTGCAAG	GCCGACCATT	TCTGCTTCCA	TAATCCCAAC	4380
ATTCACATAA	CGGTCTCCAA	AGTCCTTTTC	AAGATTATTA	GTAGCCATCG	AACTTGACAA	4440
ATCGGCTTCT	AAGACTACTA	TATCAGAATC	ACTTTGATTA	GCCTCTAAAA	GGAAGTCTCT	4500
ATATACATGC	CGTAATTCTT	TCGTACTTCT	CATCATTCTG	TTTCCTCCAA	TTCCTGACTT	4560
ATCTTTCTA	CAACTGAAGT	TAACATTTGT	TTCTCCTCTA	CAGTAGGGCG	AAGATGATGA	4620
PTGGATTTCA	TTTCTTCCAG	CTCTTGAACC	CCTTGACCTT	TAATAGTATC	TAATACAATG	·4680
CACTTAGGTG	ATGAATTATT	TGACTGTTTT	AATTGGACAA	TCCCTTCATA	AATTTCTCTA	4740
ATATCTGAAC	CCTTGACCCT	AATGGATTCA	AATCCAAATG	CTGAAAATTT	TTCTACGAAA	4800
CACCTGGAT	TACAAATATC	CTTTGTAAAA	CCATCTAATT	GTTTTTTGTT	ATCATCAACA	4860
AATACAATTA '	AGTTGGATAA	CTGTTGATGA	GAAGCAAACT	GTATAGCCTC	CCAACATTGT	4920
CCTCATTTA	ACTCACCATC	TCCAACAATA	GCGTAAGTAT	AAAAGGGACT	CTTTCTTATT	4980
TCTGACCAT	ATGCAAGTCC	AGTTGCAACA	CTAATTCCTT	GTCCTAAAGA	GCCCGTTGTC	5040
ATATCTATGC	CTGGCGTTAG	ATTTCTATCA	GGATGAGACG	GTAATTTGGT	TCCATTTGTA	5100
TTAAAGAAT	ATAAGAATTC	TTTGTCAAAG	AAACCATTCA	AATAGAGTGT	ACTGTATAGA	5160
CTGGTCCTC	CGTGACCTTT	TGATAATATG	AAATAATCTC	TATCTCGTGC	TGCAAATATT	5220
rctggagtca	TTGGCATTAT	TTCACCATAA	AGCACCGCTA	AAACTTCTAC	GATAGACAGA	5280
CTTCCTCCGT	AATGTCCGAA	TCCAAGATGA	TTCAATGTTC	TAAGAGTATT	TAATCGGATG	5340
TAGTCGCAA	АТТТТСТТАА	CCCATCTTCT	CTATTTTTAC	TTAAAATCAT	CCCTTATTCC	5400

TCCGTTGCAG ATGGCTTTTT AATAAAGGAT ACTCCAAACA TAACTGCTAG AATAAGAACA 5460 AGACCAATCA CAATGCCTGC TTGTGAGCCA AATTGATTTA ACATTCCTAA AATAATTCCT 5520 GATAGACCAA AATCTGCATC TGAGAAAGTT GATCCTTGGA AACCAAGTCC TCCCAAAACT 5580 GGCATTAAAA AGACTGGAAG AAAACTGATT AAAATACCTT GTAAAAATGC TCCAATAGTG 5640 GCTCCACGAA CACCACCAGA TGCATTCCCA ATGACACCTG CAGTCGCTCC ACAGAAGAAA 5700 TGAGGCACAA CACCTGGTAA GATAACAACC GTTCCTGAAG CAATCATAAT TACCATACTT 5760 ACTAAACCAC CAACAAAACT AGAGATAAAT CCAATTAGAA CTGCATTGGG TGCATAAGTA 5820 TAAACAATCG GACAATCCAA AGCAGGTTTT GAATTAGGTA CAAGACGCTC TGAAATACCT 5880 TTAAAGGCTG GAACAATTTC GCCCAAAATA AGGCGAACAC CTGCTAAAAT AACAAATACC 5940 CCTGCTGCAA ATTGACCTGC TAATTGTAAA GCATAAACTA GACCACTTGT ACCACTACTG 6000 ATTTCTTTT CTATATATC TGACCCTGCA AAGATAGCTA CAATAATGTA AATAACTGCC 6060 ATGGATAAAG TAATACTAAC AGTACTATCA CGTAAAAAAG CTAAACTCTT TGGAAATTTA 6120 ATGTCCTCTG TTGATTTTGA TTTGTCACCG ATAAGGCTAC CAGTAAAACC ACTCAACCAA 6180 TATCCCAAAG AACTGAAATG ACCTAAAGCT ACCTTGTCAT TTCCAGTTAA TTGAACCATA 6240 TATTTTTGCA CAAATGCTGG GGAAATACTC ATAATAATAC CGAGTGCTAA TCCTCCTAGT 6300 AAGATGAGAG GCAAGCTAGT AAAGCCAGCA ACTGATAAAA TGACCGCAAT CATACATGCC 6360 ATATATAGAG TGTGGTGCCC TGTTAAAAAA ATATATTTAA ATCGAGTAAA ACGAGCGATT 6420 AAGATATTGA ACACCATGCC TGCAAACATA ATCATTGCAG TAGCTGAGCC ATATGTTGTT 6480 AAAGCTACAG CTACAATTGC TTCATTATTC GGCACAACGC CAGATAAATG AAAAGCATGC 6540 TCAAACATGG TACCAAATGG ATTTAAAGAA TTTTGTACAA TTCCTGCACC ACCAGATACA 6600 ACTAAGAAAC CAACAAAGGT CTTAATTCCA CCTTTAATAA TATCAGGTAA TTTCTTCTTC 6660 TGAAGAACTA ATCCTAAGAT TGCAATTAAA GCTACTAAAA TAGCTGGTGT ACTAACAATA 6720 TCCAATATGA ACTTCATCAT GACGCTAGCC TCCTATATAA GTCCTTTTTC TTCACAAAGT 6780 TTAGTAATTA ATTCTCGTAG TTCATCCATA TCAATAATAC TATTTAAGAT ACGAACATCT 6840 CCAAGATGAC TAGCTGAATC AGCTAGATCA CGACCAACAA TCCAAATATC AGCTGCATTT 6900 GGATCTGCTC CACCTAAATC ATAATGTTCA ACTTCTACAT CCGAAACATT CAAATCACTC 6960 AATACAGATT CAATATTCAT CTGTACCATA AAACTTGAAC CTAATCCTGA ACCACAAGCT 7020 GTACCAATTT TTAACATTAT CTAATCCTCC TGTTTAATTA TCATTTTAAT GTCATCATAG 7080 TTTTTTGATG ATATTAAAGT TTGAACATGA TTTTTATCTC TTAAAATTGT TGTTAAATGT 7140 GACAAAGCCT TTAAATGACT CTCATTATCA ATGGCTGCAA TACAAATCAA CAATCTTACC 7200

	TCTTGTTCTG	GATTATCCAA	тааатааатс	GGTTCTTCCA	AAACTAACAT	TGACATTCCT	7260
	ATTTCATTCA	CACCTTCATC	TGGCCGAGCG	TGAGGAATTG	CTACTCCCTT	CCCTAAATTA	7320
	ATAAAAGGTC	CAAACTCTTC	TACTTTTTGA	ATCATTGCCT	CAGGGTAGTT	CTCAGTTATC	7380
	TTATCTTGAT	CCAAAAGCGG	TTTAGCTGCT	AAACGAATCG	CCTCCTTCCA	TCCTAATTTT	7440
	TGCGAACTAA	CCTGATAGGT	TTCTTTGGTA	ATAAGTTGTT	CTAGCACTGG	TACAATTTCC	7500
	TTTCTATCAT	TTTTTTGGTA	AAGATAATTC	TTTAACGCCA	ATCTTAATTC	CAATTCTTGT	7560
,	GTAATAATTC	CATATCTTTT	GACAATATTC	AGGATTTGTT	СААТСТСААА	ATCTCCATAC	7620
	TCTAAATTCG	GAAAATCTTT	TAACACTAGT	TCTACTAGTT	GTATTGCTTG	CTCTTCAGTC	7680
	ATCATAACCG	AAACTAGATA	ATTTGGCTTT	TCTGTCTCCA	CCTTTATGGT	AGAAAAAACC	7740
	ATATCATAGT	CACTACTAGC	TTTCACCTGT	AAATCATCAA	TCTTTGAGGT	TCCTATAAAC	7800
	TCAATTTGAG	GAAATAATGC	TAATAGATTC	TCTTTTAACA	TCAATGAAGA	ACTAACACCA	7860
	TTAGGACAAA	TGATTGCTGC	TTTATACCAT	TTTTGAGGCA	AAGTATCTGC	TTTCTTTAAA	7920
	TAACCTCCGA	AATGGATAAC	AAAATATGCT	GTTTCACTAT	CAGGTATGGG	ATTGTCAATA	7980
	GCGTCCATCA	AGGGCATCAA	AGAATCTTTG	ACTAATTCAA	ATAAATÇAGG	ATAATGTTCT	8040
	TTAACATGCA	ATACATATTC	ATTTGAACTA	GGTAGGCCGA	ACTTTAATCT	ATAGTAAGCC	8100
	GGTATAAGGT	GGCGGCGAAG	ATTTTCTCTC	AATCCTTCCC	TTTGTTTAAA	ATGTAACAAA	8160
	GAAATATCTT	CCATTCTACT	TATAATAGCC	TCTGTTAATT	GATTAAAGTA	AACCGGAGCA	8220
	ACATCTACTT	CACCTTCAAA	GCAACTTGAT	AATAAAACGG	TGATATAGCG	ATAATCATCC	8280
	TCAGAAAACA	CCGTATCTAT	AATTCCCAAA	TCAACCACTG	TATCCAATAA	AATAGTGGTT	8340
	ATATCTTGAA	TAACAGGAGA	TACTAATGTC	TCTGAAAGAC	ATACTCTTTC	AACATCCCTT	8400
	TGATACCTAC	ACAGAATGAA	TACTAAACCG	AAAAGGTAAA	CTTTTAATTG	ATTAACAATA	8460
	GGTACTAGCT	GTAGCTTCTC	ATAATAATCT	TTAACTACCT	GATCAATCAA	ATCATAAGTT	8520
	AATGAATACC	CCCAACTGGA	TAAAACATAA	TCCAAACCCC	AAATCCCTAT	GGAGGATTCC	8580
	AGCAACTCAC	TAACCATTTG	AAAAGCTAAG	CGGTGCTTAT	TCCACTCTGA	ACCGTGTAAA	8640
	GTATAACCTT	TTGCTCTACT	GTACCCTAGC	TCCAAATCAT	TATCTAACAT	AATCTTTCTT	8700
	AATGATTGAA	TATCAGATAA	GGTTGTATTC	TTACTTACTT	TCAAAAAGTC	TTGGTAATGA	8760
	CTATTCGATA	талалтстал	TCGGCAAAAA	GTGTAAAGAT	AGATTAAAGC	TAAGCGAGTC	8820
	GACTTTGGTA	AAACCAATTC	ATCCGACTTA	ATAATATCTG	TCAAAGACTG	CTTCGTACGA	8880
	TTTGATAAAC	TATAGCGACC	TTGCTTTTTA	TCCAGCACTA	TCCCTTTATT	AGCTAGATAA	8940

746 GGCACTAAAT AATCTATTCC TTCTTTGACT TCCTTTATAG GTAAGCTCAC CTTAACAGAT	9000
AATTCATATA ACGATAGCTC ACAATGATCC ATCAAAGTCA TCAAAATAAC TAGTGCTCTA	9060
TAATCAAAC	9069
(2) INFORMATION FOR SEQ ID NO: 98:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 8654 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 98:

60	AGTGTAGCAC	GGCGCTTGCA	TATCGTTTGT	AAATTTGCCC	AGATGAAGAA	CGAGACAACA
120	AACTCAGTAG	CACTGCTGGT	GAGCAGTCAA	GTGAAGTCTG	CTGTGGAGAA	PTCTTGCAGC
180	GCTGCATACG	AGGTTCTTTA	TTGAAGAATC	GGGTTTAACT	AATTAAAATC	AGGAAAAGAC
240	GCAGTGGTAT	AATCAATGCC	CTGTTGATGA	GCCCAATTGG	ACAAAAAGGT	GAACAGCTGA
300	CTGAGGCTGC	TCTGAAACAG	AGATAATAAG	TAGTCGATAA	CAAATCGAAG	CGATGGAAAA
. 360	GACCTGCGAC	GCAGTCGTAG	TAAAGTATCA	TAACCCAATC	ACTAACCTTG	PTCAGTTACA
420	CATTGATCTC	GCAGGTGTTC	CGCŤACAAAA	CGGTAGCGAA	ACTGCAGCTG	<b>TCTGGTGCG</b>
480	TTGGAACTTT	TACCTCTTTA	AGGTCAAGAT	GATTGACTAA	ACTCAAGATG	ACCAAGTGCG
540	TAAATGCTAA	TCTGAAAAAT	AAACTATGTT	AAATTATCTC	TTCCAAGGAA	CAAGATAGC
600	CAAAATCTTT	AAAGGGATTG	TGACTATGCT	ACAATGCCAG	CTTTACACTG	Saaagttgtt
660	GTGACACAGA	TTCGTAGCAG	AGATGAAACT	AAATCGTTGC	TACAAGGGTG	CGCGAGTCA
720	TTGTTCCTGG	GATGCTATCG	GAAAGACTTT	AAATGAAAGG	GCCCTTACAA	TTCCAAGCA
780	TTGACAAACC	GGCATGGGAA	CCAAGCGCGT	AAATTGTAAA	GAGGCTGGTA	TACTATAAT
840	CTGCTGAAAA	CAACAAGCAA	GGAGTTTGTA	TCAACGGTGA	GGTGATGGAT	ATCCTTGGT
900	CAGCTAAAGC	GTAGAAGTTT	CTCAACTACT	TCTCAGGCTT	ATCTACTTTA	GCATCAAAC
960	CATTTGCAGC	GAGCCTTCAA	GTACAATGAA	ACCGTGCTAA	CTTGACGCTT	PAAAGCCTTC
1020	AAAATTCAGG	AAAGGTGCTA	AAACGCAGCA	ACCTTGTAGC	GATTCAGTTC	TTGGCTTAT
1080	GTCAAACAAG	GGTGTAACTG	AGATTTTGAA	CTAAAACAAA	AATAACCTTG	GAAATCAAG
1140	ACAATGGTAA	ATGACCATGA	TGCTTACATG	CAGTCAAAAC	GACCACAACA	TTCGATGCA
1200	GGAATGAGCC	GTTGAAATAG	ATAGAAAAAT	TAAAACCATA	GCAGAAGTTG	GTTGAAGCA
1260	AACTGCGTCA	AATCTCTTCA	ACTCTTCGAA	GATATTTAAT	TCCCTGTTTC	TTGACTCAC

ACGTCGCCTT	GGATTATATA	TGTGACTGAC	TTCGTCAGTC	TTATCTACAA	CCTCAAAGCA	1320
GTGCTTTGAG	CAACCTGCGG	CTAGTTTCCT	AGTTTGCTCT	TTGATTTTCA	TTGAGTATAA	1380
GAACCTATCA	AAAAGTGAGG	GAAAACCCTC	GGAATTATAA	ATAGAAAGAG	TGAATCTTAT	1440
GCTCCAACAA	CTCGTAAATG	GTTTGATTCT	AGGTAGTGTT	TACGCGCTGT	TAGCCCTAGG	1500
ATATACCATG	GTTTACGGAA	TTATCAAGCT	CATCAACTTC	GCCCATGGTG	ATATTTATAT	1560
GATGGGAGCC	TTTATCGGTT	ATTTCTTGAT	CAATTCTTTC	CAAATGAATT	TCTTTGTAGC	1620
GCTTATTGTA	GCTATGCTAG	CGACAGCTAT	TCTTGGTGTC	GTGATTGAGT	TTCTTGCTTA	1680
CCGACCTTTG	CGCCACTCTA	CTCGTATTGC	TGTTTTGATT	ACGGCTATTG	GGGTTTCTTT	1740
CCTATTGGAG	TATGGAATGG	TCTATCTGGT	TGGTGCCAAT	ACCCGTGCCT	TCCCTCAAGC	1800
GATTCAAACA	GTTCGATATG	ATTTGGGACC	AATTAGCTTA	ACAAATGTGC	AGTTAATGAT	1860
TTTGGCCATT	TCCTTGATTT	TGATGATTTT	GTTACAAGTC	ATTGTCCAAA	AGACTAAGAT	1920
GGGGAAAGCC	ATGCGTGCAG	TATCAGTAGA	TAGCGACGCG	GCGCAATTGA	TGGGGATCAA	1980
TGTAAACCGT	ACGATTAGCT	TTACCTTCGC	TTTGGGTTCT	GCTCTTGCGG	GTGCGGCTGG	2040
TGTTCTGATT	GCTCTTTATT	ATAACTCTCT	TGAGCCTTTG	ATGGGGGTTA	CTCCAGGTCT	2100
TAAATCTTTC	GTTGCCGCAG	TACTTGGTGG	TATCGGAATT	ATTCCTGGTG	CGGCTCTTGG	2160
rggetttgtg	ATTGGTCTAT	TGGAAACCTT	TGCGACTGCC	TTTGGGATGT	CAGATTTCCG	2220
TGATGCCATT	GTTTATGGAA	TCTTGTTGTT	GATCTTGATT	GTCCGCCCAG	CTGGTATCCT	2280
<b>FGGTAAGAAT</b>	GTGAAAGAGA	AGGTGTAAAC	GATGAAGGAA	AATTTAAAAG	ТТААТАТТСТ	2340
ATGGTTACTC	CTTTTGTTAG	CTGGCTATAG	CTTGATTAGT	GTACTGGTTT	CAGTCGGAGT	2400
ACTTAATCTA	TTCTATGTAC	AGATTTTACA	ACAAATTGGA	ATTAATATTA	TTTTGGCTGT	2460
rggtctcaac	TTAATCGTTG	GTTTTTCAGG	ACAATTTTCA	CTTGGTCATG	CTGGTTTCAT	2520
GCGATTGGT	GCCTATGCAG	CAGCTATTAT	TGGTTCTAAA	TCACCAACCT	ACGGTGCCTT	2580
CTTTGGAGCT	ATGCTTGTAG	GGGCTTTGCT	TTCAGGAGCA	GTTGCCTTAC	TTGTCGGCAT	2640
PCCAACCTTG	CGCTTGAAGG	GGGACTATCT	TGCGGTAGCA	ACTCTGGGTG	TTTCTGAAAT	2700
PATCCGTATC	TTTATCATCA	ATGGTGGAAG	CCTTACAAAT	GGTGCGGCAG	GTATCTTAGG	2760
GATTCCTAAC	TTTACAACTT	GGCAAATGGT	TTACTTCTTT	GTCGTGATTA	CAACCATTGC	2820
AACCTTGAAC	TTCTTGCGTA	GCCCAATTGG	TCGTTCAACC	CTCTCTGTTC	GTGAAGATGA	2880
AATCGCTGCT	GAGTCAGTTG	GGGTTAATAC	GACTAAAATT	AAAATCATCG	CTTTTGTCTT	2940
PGGTGCCATT	ACTGCAAGTA	ттестесетс	ACTTCAGGCA	GGATTTATCG	GGTCTCTTCT	3000

			748			
3060	TATTTGGTGG	ATTATTGTTG	CAACGTTTTG	TCAACTCAAT	TACACCTTCA	ACCGAAAGAT
3120	TGAATATGCT	CTGGGAATTT	GGCTATTGTT	CGATTGTTTC	ATTACAGGTG	ACTCGGTTCC
3180	TATTGGTAAT	TTGGCCTTGG	TATTTACGCT	TGCGTATGAT	GTTGCTAGTG	TCTCCAAGAT
3240	GTTTCTTTAA	AGCCTATCAC	ATGGGAACTG	TCCTTGGAAC	CCAGGTGGAC	GATTTTCAGA
3300	GTTAACCAAA	AAGTAAAACA'	GCATTACTTG	AAAACTAATG	AAGGAGGAAC	AAAATCTAAG
3,360	AGGGGAACTG	AATTGAACGA	GTGACTCTTG	TGTTGGAGAT	GTCTAACAGC	CATTTTGGTG
3420	TTTGACCGGT	TTTTCAACCT	AAAACCACCC	CGGAGCTGGG	TCGGTCCAAA	GTTGGATTAA
3480	TGGGAAATCA	ACCTTTTGAA	CTAGATGGTC	AACAGTAACC	CAAGCGAGGG	GTTTATGAAC
3540	TCTCTTTAAA	AAAATATCCG	CGTACTTTCC	GGGACTTGGA	TTGCCTCTTT	CCTTATAAGA
3600	ACAGCATGTT	ACCATCACAA	GCTTTTGGAA	TGTTTTGATT	TTTTAGATAA	GATTTAACAG
3660	AAAGGCTAAA	AAAAAGAATT	TACAAGAGTG	ACCAGCTTTT	TCTTACGCTT	TTTACTAGTT
3720	TGCTAAAAAT	CAGAGACTCT	GATGGTGATG	CTTTGATTTA	TGTTGAAAAT	GCTTTGGAAT
3780	GGAACCTAAA	CCCTTGCTAC	ATTGTTCGTG	TCGTTTGGAA	GACAACAACG	CTTTCCTACG
3840	CGAATTGACT	AGGAAACAGC	ATGAACCCAC	AGCAGCAGGT	TAGATGAACC	ATTCTCTTCT
3900	TGAACACGAT	TCATGTTGAT	AAGATTACAA	AGATGAGTTT	GTCGTATCAA	GAGTTAATTC
3960	CCGTTTAATC	TTGAATATGG	ATCTACGTAC	AACAGAACGT	TCATGGAAGT	ATGAATCTGG
4020	TTATCTAGGA	TTATCGAAGC	AATAAACGCG	AATTAAGACC	CTCCAGACGA	GCTCAAGGAA
4080	GGTATGATCC	TGTGCATTAC	AAAATCTTTC	TTAAAAGTTG	AATGTCTATG	GGTGAAGCCT
4140	CTTATCGGTG	AGTTGTTTCC	ATGAAGGAGA	TTTGAAGTTA	TGATGTAAGC	AAGCAGTTCG
4200	CGACCAAGTT	AGGTTTGGTT	GCACCTTGTC	ACTATTCTTC	AGGTAAGACA	CCAACGGTGC
4260	AAAATCGTGG	GCCAGCTCAG	ТССААААААТ	GGTCAAGAAA	TGAATTTTTA	CAGGAAAGAT
4320	ACTGTTATGG	TCCTGGCTTG	GCCACGTCTT	CCAGAAGGAC	TTCACAAGTT	CAAGTGGTCT
4380	GCTAACTI'GA	AGAAAATCAA	AAAATCGTGA	TTCTTAAAGA	AATGGGAGCT	AAAATCTTGA
4440	GCAGCCACTC	GAACCAAGAT	AAGAACGGAA	CCTCGTCTTG	CTCACGCTTT	AGAAGGTTTT
4500	ACACCAAAAC	CCTCATGTCA	TGGGACGCGC	ATGCTTGCCA	GGAACAACAA	TTTCAGGGGG
4560	GAAATTTTTG	CTTTATCCAA	TTGCCCCAAT	TCAATGGGAC	AGATGAACCA	PTCTTCTTTT
4620	CAAAATGCCA	CTTGATTGAA	CAACGGTCCT	AAGCAAGGAA	AGATATTCAG	ATATCATTCA
4680	ATCGTCCTAT	AACAGGGAGA	ATGTACTGGA	GACCGAGGAT	TGCAATCTCT	ATAAAGCACT
4740	CTAGGTGGCT	AAAAGCATAT	AAGAAGTCAG	GCTTCATCAG	AAAAGAACTC	CAGGAACAGG
4800	TCATCAATAT	TACGAAGTAA	AGATGGAGAT	TTTAGTCGGC	AGTGGATTGT	AAAACAATCC

AGTCCGGGGG	ACCTTTTTAG	TCGGTAGATT	GAGATTGCAA	ACAAATCTGC	ATCTACATTG	4860
\AAGCTTAAT	TTCTAATAAT	TGAAAAAATC	GAATGAAAAA	TTTCTTACCT	TCATTCACAG	4920
AGCTCGATTT	CAGAGCTCTT	TTTGCTAGCT	TATTCATACT	TTTCTGAATT	TCGAAAAAGA	4980
<b>AATGTAAGCG</b>	TTTGATAGAT	TTACAAAAAG	ATTGTATAAT	AGGGATAAGA	ATAGAAAAGG	5040
AGAAGTCTCA	TGGCAGTTAA	AGATTTTATG	ACCCGCAAGG	TAGTTTATAT	TAGTCCAGAT	5100
ATAACAGTAT	CTCATGCAGC	AGATTTGATG	AGAGAGCAAG	GTTTGCACCG	TCTGCCTGTT	5160
ATCGAAAATG	ATCAATTAGT	TGGTTTGGTG	ACTGAGGGAA	CCATTGCACA	AGCAAGTCCA	5220
rctaaagcaa	CAAGTCTTTC	TATCTATGAG	ATGAATTATC	TTCTGAATAA	GACAAAAGTA	5280
<b>AAAGATGTCA</b>	TGATTCGCGA	TGTTGTCACT	GTCTCAGGCT	ATGCTAGTCT	AGAAGATGCA	5340
<b>ACTTATCTGA</b>	TGTTGAAAAA	TAAGATTAGT	ATTCTCCCTG	TCGTAGATAA	CCATCAAGTA	5400
racggagtta	TTACTGACCG	TGACGTTTTC	CAAGCCTTTC	TTGAAATTGC	AGGTTATGGC	5460
GAAGAAGGGA	TTCGTGTACG	CTTTGTTACA	GAAGATGAAG	TTGGTGTTCT	TGGAAAAATT	5520
STTTCTTTGA	TTGTAGAAGA	AAATTTGAAT	ATCTCCCATA	CAGTCAATAT	TCCGCGTAAG	5580
GATGGTAAGG	TGATTATCGA	AGTGCAAATC	GATGGATCAA	TTGATTTACC	AGCCTTGAAA	5640
OTTTAAAAAA	AAGCAAATGG	TATTCAAGTG	GAAGAAATCG	CTCGCACTTC	AGCAAAAGTC	5700
<b>PTGTAAGAA</b> G	GGAAGCCCAA	AGGCTTCTTT	TTTCATGAAA	AGGGGATTAG	AGCAAAAGAT	5760
GGAAAGAAAT	GATAAAATAT	GCTATAATGA	AATAATGTAA	AAAAGGAGTA	TTTATGGACA	5820
ITTCAGTAAT	TCGTCAGAAA	ATTGACGCAA	ATCGTGAAAA	ATTAGCTTCT	TTCAGGGGGT	5880
CTCTTTGACC	TCGAAGGGCT	AGAGGAAGAG	ATTGCCATCT	TGGAAAACAA	GATGACAGAA	5940
CCTGATTTTT	GGAACGATAA	TATTGCGGCC	CAAAAAACGT	CGCAAGAATT	AAATGAATTA	6000
AAAAACACTT	ACAATACCTT	CCATAAGATG	GAAGAGTTGC	AGGATGAAGT	CGAAATTTTA	6060
ITGGATTTTT	TGGCTGAAGA	CGAGTCAGTG	CATGATGAAC	TGGTAGCGCA	GTTAGCCGAA	6120
CTTGATAAGA	TAATGACCAG	CTACGAGATG	ACTCTACTCT	TGTCAGAACC	TTATGACCAC	6180
AACAATGCCA	TCTTGGAAAT	CCATCCAGGT	TCTGGTGGTA	CTGAGGCGCA	GGACTGGGGT	6240
GATATGTTGC	TTCGTATGTA	TACTCGTTAT	GGTAATGCTA	AAGGCTTTAA	AGTGGAAGTG .	6300
ITGGATTACC	AAGCAGGTGA	TGAGGCTGGT	ATTAAGTCGG	TAACTTTATC	ATTTGAAGGG	6360
CCTAATGCCT	ATGGTCTCCT	CAAGTCAGAA	ATGGGTGTTC	ACCGCTTAGT	GCGAATCTCA	6420
CCATTTGACT	CTGCCAAACG	TCGCCATACC	TCTTTCACAT	CTGTAGAAGT	GATGCCAGAA	6480
THE COMMENTS	CONTRACTOR A CONTRACTOR	CCAAMCCCC	CARCATCATA	<b>ТСААСАТССА</b>	י. י.	6546

			/50			
TCAGGTGGTG	CCGGTGGACA	AAACGTCAAT	AAGGTTTCAA	CAGGTGTACG	TTTAACCCAC	660
ATTCCAACTG	GAATTGTTGT	CCAATCAACA	GTAGATCGTA	CCCAGTATGG	AAATAGAGAT	666
CGTGCCATGA	AGATGTTGCA	GGCTAAGCTC	TATCAAATGG	AGCAAGATAA	GAAGGCTGCG	672
GAGGTAGATT	CTCTCAAAGG	TGAGAAAAAG	GAGATCACTT	GGGGAAGCCA	AATCCGTTCT	678
TATGTCTTCA	CGCCTTATAC	TATGGTAAAA	GATCACCGAA	CTAGCTTTGA	GGTTGCTCAG	6840
GTAGATAAGG	TTATGGATGG	GGACCTAGAT	GGTTTTATCG	ATGCTTATCT	CAAGTGGCGA	6900
ATTAGCTAAG	ATAGAAAGGA	ACTCACATGT	CAATTATTGA	ÁATGAGAGAT	GTCGTTAAAA	6960
AATACGACAA	CGGAACAACT	GCTCTACGCG	GTGTTTCGGT	TAGCGTTCAA	CCGGGGGAAT	7020
TTGCTTACAT	CGTAGGACCT	TCAGGAGCAG	GGAAGTCAAC	TTTTATTCGT	TCTCTGTATC	7080
gtgaagtaaa	AATCGATAAA	GGAAGCCTAT	CAGTTGCTGG	TTTTAATCTG	GTTAAGATCA	7140
AAAAGAAAGA	TGTCCCGCTT	CTACGTCGTA	GTGTTGGGGT	TGTCTTCCAG	GATTATAAAT	7200
TGTTACCAAA	GAAAACTGTC	TATGAAAATA	TTGCTTACGC	TATGGAAGTA	ATCGGGGAAA	7260
ATCGCCGTAA	TATCAAAAGA	CGAGTGATGG	AAGTTTTGGA	CTTGGTTGGA	TTGAAGCATA	7320
AGGTTCGTTC	TTTCCCAAAT	GAACTCTCAG	GTGGGGAGCA	ACAGCGGATT	GCGATTGCGC	7380
GTGCAATTGT	AAATAATCCC	AAAGTATTGA	TAGCTGATGA	GCCAACAGGA	AATCTGGATC	7440
CGGATAATTC	ATGGGAAATT	ATGAATCTCT	TGGAACGGAT	TAACYTACAA	GGAACAACTA	7500
TTTGATGGC	GACTCATAAT	AGCCAGATTG	TAAATACCTT	GCGCCACCGT	GTCATTGCCA	7560
PTGAAAATGG	CCGTGTCGTT	CGTGACGAAT	CAAAAGGAGA	GTATGGATAC	GATGATTAGT	7620
AGATTTTTTC	GCCATTTATT	TGAAGCCTTA	AAAAGTTTGA	AACGAAATGG	TTGGATGACA	7680
STAGCTGCTG	TCAGTTCAGT	CATGATTACT	TTGACCTTGG	TGGCAATATT	TGCATCTGTT	7740
ATTTTCAATA	CAGCGAAACT	AGCTACAGAT	ATTGAAAATA	ATGTCCGTGT	AGTAGTTTAT	7800
ATCCGAAAGG	ATGTGGAAGA	TAATAGTCAG	ACAATTGAAA	AAGAAGGTCA	AACTGTTACA	7860
ATAATGACT	ACCACAAGGT	ATATGATTCT	TTGAAGAACA	TGTCTACGGT	TAAAAGTGTT	7920
CCTTTTCAA	GTAAAGAAGA	ACAATATGAA	AAATTAACCG	AGATAATGGG	AGATAACTGG	7980
AAATCTTTG	AAGGAGATGC	CAATCCTCTC	TATGATGCCT	ATATTGTAGA	GGCAAACACT	8040
CAAATGATG	TAAAAACTAT	AGCCGAAGAT	GCTAAAAAA	TTGAAGGTGT	CTCTGAGGTT	8100
CAAGATGGCG	GTGCCAATAC	AGAAAGACTC	TTCAAGTTAG	CTTCATTTAT	CCGTGTTTGG	8160
GACTAGGGA	TTGCTGCTTT	GTTAATTTTT	ATCGCAGTTT	TCTTGATTTC	AAATACCATT	8220
GTATTACCA	TTATTTCCCG	CAGTCGCGAA	ATTCAAATCA	TGCGCTTGGT	CGGAGCTAAA	8280
ACAGTTATA	TCCGTGGACC	GTTCTTGTTA	GAAGGAGCCT	TTATCGGTTT	ATTGGGAGCT	8340

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ATCGCACCAT	CTGTTTTGGT	CTTTATTGTT	TATCAAATTG	TTTACCAATC	TGTCAACAAA	8400
TCGTTGGTAG	GGCAAAATCT	ATCCATGATT	AGTCCAGATT	TATTTAGTCC	GTTGATGATT	8460
GCCCTACTAT	TTGTGATTGG	GGTTTTCATT	GGTTCATTGG	GATCAGGAAT	ATCCATGCGC	8520
CGATTCTTGA	AGATTTAGGT	AAAATAGCTG	CTTTTATGAG	GAGATTGTAA	AATCTCCTTT	8580
TTTGCTACAA	GAGTTTTTGA	AAAGAGATGC	GCAGAAGAAA	AGAGCTTCCA	AAGAAGTCCC	8640
CCAGAGAAGA	CTTC			•		8654

### (2) INFORMATION FOR SEQ ID NO: 99:

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 19718 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double
   (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 99:

TGTC	GCGTCA	AAATCATTAC	TATGGCTATG	TATAGCCCTT	ACTATGACTT	GGCTAAACAC	60
GTTC	GCTTTC	AAATTTCTAG	GCTCAGGCTG	AAACAGTCTC	CCAGGCTGTT	CACTCCCGAA	120
TGCT	AAAATC	GTTCTTGATC	GCTTTCACAT	TGTACAACAT	CTTAGCCGTG	CTATGAGTCG	180
TGTG	CATGTC	CAAATCATGA	ATCAGTTTCA	TCGAAAATCC	CATGAATACA	AGGCTATCAA	240
GCGC	TACTGG	AAACTCATTC	AACAGGATAG	CCGTAAACTG	AGTGATAAGC	GATTTTATCG	300
CCCT	ACTTTT	CGCATGCACT	ТААСАААТАА	AGAAATTCTT	GACAAGATTT	TAAGCTATTC	360
AGAA	GACTTG	AAACACCACT	ATCAGATCTA	TCAACTCTTA	CTTTTTCACT	TTCAGAACAA	420
AGAC	CCTGAG	AAATTTTTCG	GACTCATTGA	GGACAATCTG	AAGCAGGTTC	ATCCTCTTTT	480
TCAG	ACTGTC	ТТТААААССТ	TTCTCAAAGA	TAAAGAAAAG	ATTATCAACG	CCCTTCAACT	540
ACAC	TATTCT	AATGCCAAAC	TGGAAGCGAC	CAATAATCTC	ATCAAACTTA	TCAAGCGCAA	600
TGCC	TTTGGT	TTTCGAAACT	TTGAAAACTT	CAAAAAACGG	ATTTTTATCG	CTTTGAACAT	660
CAAA	AAAGAA	AGGACGAAAT	TTGTCCTTTC	TCGAGCTTAG	CTGACTTCAA	CCCACTACAG	720
TTGA	CAAAGA	GCCTAATTTC	CATAAAAATT	GACATGGAAA	TTATAAAACC	ATTACTAGTT	780
TAGT	CCTTTT	TGATAACGTG	CCAATTCGGC	TTGGTTCGCC	CAAACATAGT	GACCTGGACG	840
GATT'	TCTACC	ATAGATGGCT	TATCAGTCTC	ATAGTCGTGT	TGACTTGGAT	CGTAAACCTT	900
CAAG	ACCTTC	TTACGTTCCA	AGATTGGATC	TGGGATTGGT	ACCGCTGAAA	GCAAGGCTTG	960
AGTA'	TATGGG	TGAATTGGAT	TGTTAAACAA	TTCTTCTGTT	TCTGCAACCT	CTACAATAAC	1020

			752			
ACCCTTGTAA	ATAACTGCGA	TACGATCTGA	AATAAAGCGA	ACAACCGACA	AGTCATGGGC	108
GATGAAGAGA	TAGGTCAGGC	CGAGCTCTTT	TTGGAATTTT	TTGAGCAAGT	TCAAGACTTG	114
GGCACGTACA	GAAACGTCCA	AGGCTGAAAT	TGGCTCATCT	GCAATAACAA	AGTCTGGTTG	1200
CATGACCAAG	GCACGGGCAA	TACCGATACĢ	TTGACGTTGA	CCGCCTGAGA	ATTCATGAGG	126
GTAACGAGTC	AAGTGCTCAG	CAAGAAGACC	TACTTCACGG	ATAATATTT	GAACTTTCTC	1320
TTTACGTTCT	TCTTCATCCT	TAAATAAACG	GTGATTGTAA	AGACCTTCAG	АЛАТАЛТАТА	1386
ATCAACAGTC	GCACGTTCAT	TCAAACTTGC	GGCAGGGTCT	TGGAAAATCA	TCTGGATTCG	1440
ACGAATCAAT	TCCGCAGCTT	GTTCACGCGA	TTTCTTACCA	TTAATCTTTT	GACCATCAAA	1500
AATGATATCT	CCATTACTTG	TATCATTTAG	ACCGATGATA	GCACGACCAA	TAGTTGTTTT	1560
CCCACTACCG	GACTCACCTA	CAAGCGAGAA	AGTTTCTCCC	TTGTTGATAA	AGAAGTTAGC	1620
ATTTTTAACC	GCGACAAACT	TCTTACTTCC	TTCACCGAAG	GAAATTTCTA	AATCTTTGAT	1680
TTCTACTAAT	TTTTCAGACA	TTTCCTTCCT	CCTAGTCAGC	CAGATGGGCA	AATCCCATTT	1740
TTTCACGGAT	CTTATCATGG	AGATTTGCAA	TCACAGCTGG	TTTTTCTACT	TTCGGAGCAT	1800
CCTCATGAAG	AAGCCAAGTT	TTAGCCCAAT	GTGTCTCTGA	TACTGAGAAT	TGAGGAGCTT	1860
TTTGTTCGAA	GTCAATCTGC	ATTGCGTAGT	CAGAACGCAA	GGCAAAAGCA	TCCCCTTTCA	1920
GGTCAGTATA	AAGTGACGGA	GGTGTTCCTG	GGATTGAGTA	AAGATCCCCT	TTATCATCAG	1980
CAAGCTGAGG	CAAGCTAGAC	AAGAGACTCC	ATGTATATGG	ATGGCGAGGG	TCATAGAAGA	2040
CTTCCTCAAC	CGTTCCATAC	TCAACGATTT	CTCCTGCATA	CATAACCGCT	ACCTTATCCG	2100
CAATACTTGC	CACCACACCA	AGGTCGTGGG	TAATAAAGAT	TGTTGTGAAA	TGATACTCGT	2160
TTTGTAAAGA	TTTTAGCAAA	TCAATAATCT	GAGCTTGAAT	AGTTACATCC	AAGGCAGTTG	2220
TTGGCTCATC	ACAGATCAAG	ACATCAGGTC	GGCAGGCAAG	GGCAATAGCA	ATAACGATAC	2280
GTTGACGCAT	TCCTCCAGAA	TATTGGAATG	GGTATTCATT	AAAACGTCTA	TCTGCGTCTG	2340
GAATGCCAAC	CTTATTCATG	TAGTCAATGG	CCAATTCTTT	CGCTTCTTTA	GCTGTTTTTC	2400
CTTGGTGTTT	TACAATAACT	TCTGTAATCT	GACTACCAAT	TGTTTTAATG	GGGTCCAAAC	2460
TAGTCATTGG	GTCCTGGAAG	ATAGTCGCAA	TCTTAGCACC	ACGAATTTGT	TCCCAATCCT	2520
TGTGAGAAGA	TAAAGCTGTC	AAGTCCTGAC	CACGGTAGTC	AATACTACCT	TGGGCAATAC	2580
GACCATTTTC	TTCGAGCATA	CCTGTGAAGG	TCTTTGTCAA	AACAGATTTA	CCTGATCCTG	2640
ACTCACCTAC	CAAGGCTAAT	ACTTCTCCTT	CGACTAGTTC	AAGGGAAACG	CCGCGAATGG	2700
CTGTCAATAC	TTTGTCACGA	ACGTCAAATT	CCACGACAAT	ATCGCGAGCA	GTCAAAATTA	2760
	առառահետև ջատ	<b>т</b> Стр СтССтр	ጥርጥልጥርጥርጥል	CCTCCATCAC	тассатессе	2820

TAAGTTTTGA	ССААСТАССА	AAAGGGACAA	GCATACCAAG	ACA ACCCUMC	ጥርስ አጥርርስ አጥ	2880
						2880
CCAGAACAAG	TAAGCATTGG	TTGTTACGTT	TTGTGAATAA	TCCGAAATCA	AACGACCCAA	2940
ACTTGGCACT	GTAATCGGTA	ATCCAAGACC	GAÀGAAAGAC	AAGAAGGCTT	CGTATGAGAT	3000
Aaagcttgga	AGCATTTGAG	TCATGGTTGT	CACAATAACA	GATACCAATT	GAGGCATGAT	3060
ATTTTTGGCA	ACAATCTTCA	AGGTTGGTGT	TCCCAAAGTA	CGTGACGCCA	AGTTGTATTC	3120
CAAGTCACGA	TAGCGCAAGA	TTTGCACACG	GATCATGAAG	GCAATACCAA	TCCATGTTGT	3180
TACGCTCATG	GCAAAAATCA	GATTCCAGAA	TCCAGCTCCG	ATTGAGTAAG	TCAAGACAAT	3240
ААСААТСААА	AGAGGTGGGA	TGTTTGAGAT	GACGTTGTAA	ACTTCCATCA	TGACACGGTC	3300
AACTGATTTT	GAAATACCCC	AAATACCACC	GACAAAAACA	CCGATAACCA	AGTTAATCAC	3360
TGTCGCAATC	ACAGAAATGA	GGATGGAGTT	ACGAGCTCCG	AACCAGACAC	CGTCAAAGAG	3420
CGATTTACCG	TTACTGTCAG	TACCGAACCA	ATGCTCCGCA	TTTGGCTTGA	TATAACGAAC	3480
ACTAAAGTCG	TTTACCTTGC	TGACATCATT	GAAATCAAAC	TTAGAAAACA	TTGGGTAGAT	3540
GAAACTTATC	aaaatgatgg	CTACCAAGAT	TCCCAACATG	ACTACAGTTG	ATTTTTTTTT	3600
CATAAATTGT	TTAAACACTG	ATTTCCAGTA	AGAATATGCT	GGCGCATCAA	TAGTTTCAGA	3660
GGCAAAATCG	TCACGTTTTA	CAAACTGAAA	TTTTTCTTTA	TCGATTGTAG	ACATTATTTG	3720
CCTCCTTTCT	CAGTCAATTT	AATACGTGGG	TCAATAATAG	TCATCCAAAT	ATCTCCCAAA	3780
AGACGTGAGA	AGATAGAAAT	ACATGTAAAG	ATGAAGACAA	GACCAACGAC	CATAGAGTTA	3840
TTAGATGCTT	TTACAGAGTC	AATCAACATT	TTACCCATAC	CTGGGAAGGC	GAAGACTGTT	3900
TCAGTAAGGG	TTGCACCACC	GATAACCCCA	ATAATGGCAG	CAGGAATTCC	TGAAACCAGC	3960
GGAACCATGG	САТТТТТААА	GATGTGTTTG	TTTGAAATTT	CTTTTTCAGA	CAAACCTTTT	4020
GCACGAGCGA	AACGAACAAA	GTCTTGAGAT	TGCAAGTCAA	TCATGTAACG	ACGAATCCAA	4080
ATGGCTGTAC	CAGGAGCACC	CAACAAACCA	AGGATGACTG	CTGGTAAAAC	GTAAGAACGC	4140
CAATCTCCAG	CTCCCAAGAT	AGGGAATGAA	TCTGGAAGGG	CAATAGATGA	TCCAATCAAT	4200
CGAACGATGT	AAACCAAGGC	AATCGTTGGA	AGAGCAAGCA	AGAAGGTCAA	AGCCCCTGTT	4260
GAGAGGCTAT	CAATCCAAGT	GTTCTTGAAA	CGAGCCATGG	CTGAACCAAG	TGGCACGGCA	4320
AGAGCATAGG	CAAGAACCAA	ACCAATCAAA	CCAGTAATAG	CAGAGCTGAC	AATCATAGAT	4380
GGATATTGGT	AATTACTTTC	AGTCGCTGTA	TAAGGATCAT	CTTTCCCATA	GCTAGCTACT	4440
TCACGAGAGT	CAGCCTGACT	AGGTGACTTG	TAGGTTCTTG	AGTAAATATT	TACAGAAGAC	4500
GTTTTCTTAC	CTGTTGGGAA	CTGAACTTGG	GCAGTTTTGG	TTTGTCCTTG	ACCTTGAGTA	4560

754 ATAACCTGAA GAACTGGTGT ATTAGCATAG GTTGGGTAAG AGTCACCTAA ATTCAAGTTC 4620 ACAAAGTTTT GATGAACAAA TGGGAACTGA CTGTTAAAGT ACAAGAGATA TTTATGTTTA 4680 GTTCCTGAAC CGACCAATGA CCATCCGATA GCTGGATCAT TTTCAAAACG AAGGTAGCGT 4740 TTCAAGTCTG GATTTTCAGG GTCTTGGATT TTATTTGTAT GGTCAATGTC AATCAAGTTA 4800 GCATAGAAGT GAAAAACACG TTCAAAAATT GGAATTTCAC GAGTAGCATA GAATTGACCA 4860 CTTTCAGTAA ATTCTCCCAA AGTCCAACCA TGACCTAATT GATTGATGTA CTTTTCATAA 4920 ATAGCTTTAT TGGTCGCATT TGCTTCTACT GTTACAGAAG AATCCATGCT ACTTGCCTTT 4980 TCTTGCAACT CTTTAGTATC GTAATACTCA ATGTAGCCCA TACGCTCAAA CACAGTATTT 5040 TCATAGTTAT CACGTTTATC AGCCGTTGTC GCAATTTTAT TATAGTTAGG ATCCTGCTTG 5100 AAAATCAATT TTCGAGGAAC CAAGGTATAG ATAATCGTGT AGGTCAAAGT CGTTACTAAG 5160 AAAATCGAAA CCAATGACCG CAAAACACGC ATAAAAATAT ATTTTTTCAT ATTATTTCCT 5220 TTAAAAATCC CAAAAGAACC TTCTCCTCAT GGAGAGAAG TTCTATTAGA AATTATTTAC 5280 TTCACATGAC TTGCCAATTC TTTTTGAGCT TTCTCATTTG ATTCAGCTTT TTCTTTCAAC 5340 CATTTTTCAC GAGCTTTTTC ATACTCTTCC TTAGTCACCA CTTTATCTTG TGATTTCAAA 5400 TATTTGAAGT AAACATCTGA CCCCTTAGAG CCTGTTTGCG CAGAAGCTCC AGTAAATGGA 5460 ACAATTCGTG AAAGCACTGG TGCTGCACCA GAAGAAGCCA TAGCAGGAAT AAAGAGTGAA 5520 CTATCTGTCA ACCATGCTTG AGCCGCTGCA TATTTTTCAT AACGGACATT CAAGTCGCTT 5580 GTCTCTCTGG CAGCTTCATC AACTAATTTA TCGTATTCTT TCAAACCAAC TTGAACTACT 5640 GAAGGCTAT TTGGATTATC AAATCCTAAA TATGTTTTTG TAGTTTCACT GCTAGTTGTT 5700 TTTAAAATAT CCAGGTAAGT AGATGGGTCT TGATAGTCTG GCCCCCATGA AACTCCTCCT 5760 GATACATCCC AATCCTCAGA TGAAGCATTG GCAGCATAGT AAGTAATATT AAGGAATTCA 5820 TCACTTGTCA TTTGTTGAAT ATCAACAACG ACATTTTCAA CACCAAGAAC TGTTTCTACA 5880 GATTGTTTAA AGGACTGAAT ACGAGATATG TAGTTTTTTG ATGCTTGGTC TACTGGAACG 5940 TCCAGATGAA TAGGAAACTG AACGCCGTCT GCTTCTAAAG CTTTCTTAGC TTTCGCAAAC 6000 TCTGCCTTGG CCTTGTCAGC ATTGAATAAA CCATCCTGCC CATCAGCTAA ATTCACACCT 6060 TTCCACTCAT CACCATAAGC AGGAAGTTGA GCAGCGACTA AATCACCAAA GGTCTTCTCA 6120 CCAGCTGAAA CAAAGTCTGG TTTTACAAAT AAATTACGAA CTGCTAAAGC TGCTCCATCT 6180 TTACCATTGA TTTGAGCTGA GTAAGCTGAG CGATCAAGAG CAAAATTCAA GGCTTGACGG 6240 AAATCTTTGT TAAGCAATGC CTTCTTAGTA GCTACTTTCT CTGAATCTGT AGTTTTAGAA 6300 GTATAGTTGT AACTTTGGCG ATCAATATTC ACACCCAGAC CAGCAATCCC AGAGCCTGAT 6360

TGTGTGTAAT	AGATATTGTC	CTTGTATTCT	TCTGCAACCT	TAGAATAGTT	GGAGCTGGTA	6420
GGGTAAAGAC	GGGCATAACT	ATAAGCTCCA	CTAGTGAAGT	TACGCTCTAG	CGACTCCTGA	6480
TCTGATCCAT	CATAGTAAGC	TAGATTGATA	GTATCTAGGT	GGACATTTTC	TTTATCCCAA	6540
TATTGCTCAT	TTTTTACAAA	CTCTACAGAA	GATTTTGCAG	TCAACCCTTT	CAACAAGAAT	6600
GGACCATTAT	AAAGCAAGGA	TGTCGGATCT	GTTGGTTTAG	CAAAATCGCT	TCCTTTTGAT	6660
GTTTCGAATT	CTTCATTCAG	AGGCCAGAAA	ATAGAATAGG	TCAACTTAGA	GTTCCAGAAC	6720
GGTTCAGGCT	GGTTCAAAGT	GTATTGTAAC	GTATAATCAT	CAACCGCCTT	GACACCAACT	6780
<b>СТТСАААА</b> АТ	CTGTTGAAGT	TCCTGATAGA	TAATCTGCCA	AGCCTTTAAC	CGAATTTTCA	6840
GCTAAATACA	TAGCTTCTGA	TTTTTTATCT	GCTGCGTGTT	TTAAACCGTT	CACGAAATCT	6900
TTAGCCGTCA	CCTCTGCATA	TTCTTCTCCA	TCAGAGGTAA	ACCATTTAAC	CCCTTTACGA	6960
ATCTTATAAG	TGTAGGTCAA	ACCATCCTTA	GAGACTTCCC	AATCCTCTGC	AACTGCAGGA	7020
GCAAGATTAC	CGTAATTATC	GTTAGTGAAT	AAACCATCAA	TCCCATTTGA	AGTCACTACT	7080
GTTGTACTAT	TTTTACTTGA	AATCAGGTAG	TCCAAGGTTT	CTGGGTCTGC	TGTATAAACA	7140
TAGCCATAAG	CTTTAGGGGC	TGATGAATCA	GATGATTTTG	AAGAACTGCA	TGCTGCAAGT	7200
ACACCTGCTG	CTAATAAAAC	AAGACCTGCT	GTAGCAAATA	CACGATTTTT	TTTCATTTTC	7260
TACTCCTCTG	TTTATGTGAA	TTATAGATTG	ACAACCATTA	TATCACATTA	TCCATTAAAA	7320
ATCAAACAAA	TTTTCAGAAT	ATTTAGGCTT	GTTGGCACAA	ATTTTTCATT	ТТТТТТСААТ	7380
ATATGATTCA	AATTGTCGTT	CGAAGTGTCA	AAGACTACAG	TGAAAATAGG	AAATTTGACG	7440
CAGAAACTTT	GGAGTTTAGG	AAGACATACA	GTAAAATGAA	ATACGGACGG	AACAATGTGA	7500
TTTTGGAATT	CAAATTAAAT	TATAACAATA	TTGTAGAAGT	ATCATTCTAG	TATTCAAGAT	7560
TCAGTTTACT	ATGTCTTTTC	ACACCAACCT	TATCCCGAAT	TCAATTACTT	TTGTGATTTA	7620
CATATATAGA	TTAAGACTAT	CTTTTATACT	TTAAAATTTC	TCGCTACCTT	ATCCACTATA	7,680
TGCTCCTCGC	TATCACGTTT	CTATTCATAG	CCTACGATTT	CACTATTGCT	TTCTCTGACA	7740
ATTCTTATTT	CCTGCGTCAG	ACTTAAAACG	ATCTATCCCC	AGACCATTTT	AATCCGCTAC	7800
CTCACGATAG	TCAGGCTTGG	GGAGCGCTAT	TGTATTCACC	GGTAGTGGAG	CCCTACAGAG	7860
GACTTACACC	TCAGATGCAC	GACATGCCCA	TCGTATAAAA	AATCTCCTAC	CCAAGGTAGA	7920
AGATTTCAAA	CTTATAAAAC	TTAATCCGTC	ATGTCCGATA	CCAACATTCG	ATGCTCCAAT	7980
GGAATACTGC	ACATAACTAG	CAAGAAAATA	AAGCCTGACT	GAATCCAGAA	GAGAGCCAAG	8040
מתיים בי בי בי	CORCONCACO	A A CYC A CTYCTUA	ACCA A ACAMA	CAMAAACCCC	CAMAAMOOCA	0100

756 CGTTTCCCCG ACTCCTGACT CATATCCATC ATCAAGCGAA CAGGAGCAAC AGAAGACAAA 8160 ACTAATAAAA TAGTCCCCAC AATTCCGTAA CTCAGAATCG TATCAATATA AAGACTGTGG 8220 GCATGTTCAT GATAAGGAGC ATGTATCCGA GGATAAGAGT TCATATAGGT CAATGGCCCT 8280 TCACCCCAAA AAGGATTTTG CTTAAACAAG GCCATCCCAG CATCCCAGAT AGAAATGCGT 8340 TCTTCCATAG AAGAGTCTAA AGTACCCATT CGAACTCCCA AATCACTAGA AAAGAGGAAA 8400 CTCAAACCAA TCGCGAAGAC CCCAATACTA AGCCAAAAGG CCTTCCAGTT TTTAATAGTC 8460 GTAAAGAGAT AGATAATTGC TCCAGCGATA ATAGCAGGAA AGGCAGTTCG ATTTTGAGTA 8520 AAGTTCAAAC CAAAGAGATT AACAAAGCCT GCAATCACAC AGAATACTTT CAACCAATTC 8580 AACTTGGTCG TTGTAAACAG ATAGAAAGCA ATCATAATAC AGAAACAACA AATAATTCCA 8640 TAATAATTAG GATTAAAGAA GGTCACTTCT GCCCGGTTCT GATGCCACAC CTGCATATTG 8700 GGTGAAAGAA AAGCATAGTT AAATTTCTTC ACAATTTGGA AATGTTCTAA ACTGGCAAAA 8760 GCAGCTGACA AGACACTACC AAACAAGACA AACTGCAAAA TCAATCGAAA GAATTTATGG 8820 GATAAAATCG ACTGATAGTG CAAAAAGAAA ATAGTAAATA GAAACATTCC TACTGAAGCC 8880 ACAAGACCCA TCCAATTTTG TGCAAGAATG GATATAACAG TACTATAGCT AAGAAAAAGA 8940 AGCAGCATCG GATGCTCCCC CATTTTCTGA AGAATACTTT TCATGTCTCC TGTAAAAATC 9000 AAACTGATAA TATATAAACA GAGTACAACT ACAAAAAGAT AAAAGGGTAA AAAGATACTC 9060 AGGATAATTC CCAATAAAAT CAGCTCTTTA CTAGACAACC CCTTCAGCTT TTCAATAAAG 9120 CCTATTGATT TCAAAATGAA TCCTTTCTCT CCAAATCAGC TGATTCAGAT AATAGTAAGC 9180 TATCCTATAT TGTACCACTT TTTTAGCAAT TTGAAAACAA AGGAAACGTT TTCCAAAATA 9240 AAAACCCTAT TTTATCCACC ATATCAAGGC TTCAAAATGA TACTTCAACT CCATTCTCAA 9300 TTACCCGATA AGTCTGATTT TGCAAATCAA TTTCTACTAC TGCTGTTACG GACTTATCTT 9360 TATTTTGACG TTTGATTACA ATGCTGTGAG CTGTTGGTGT CTCTATCTCA GTAGTCCCTT 9420 CTAGATCAAA GGCTTCTGAA CGGTTACGGA AAGAAAATAG ATTGAGAAGG GCCTTCACAA 9480 CAGGTCGTTG CACTTCTTTT GCTATTTCCT CGTTGCTATA GTAATGACGA TTAATATTTC 9540 GACCTTCTTT AGTTTCTTCT AATAATTTCA AGTCATTCTT GCCTGCTAAT AGACCCACAT 9600 AGTAAATCTG AGGAATACCT GGGGCAAAAG CTTGAATTAG ACGAGCGAGA AAATACTTGA 9660 CATCATCATC TCCAAGCGCT GAATAGTAGG TTGAATTGAT TTGGTAGATA TCTAAGTTGT 9720 TATACTCGGC ACTAGAGTAC TTACGTTTGA CATTGGCTCC AACCTTATAG AGTTCATTTG 9780 AAGCATAGTC AATCTCCTCA TCGGTCAGGA TATCCTTGAC ATCTACTACT CCAATCCCAT 9840 CATGGGTATC TAGCGTCGTA AATTGCTTCA TCGGGCTCAT CTTTAACCAC TTAGCCAAAC 9900

						•
GCTCTGTTCT	GGAACTGTAA	AGAGTATAAA	GTGTCACCAT	TGGAAGAGCA	AAATCATAAA	9960
CAȚAGTAATC	ATGGTCTGCT	ATTTTAAACT	GAATCGAATA	GTGTTCATGA	ATCTCAGGTA	10020
AAAGCTCTGT	CCCATACTCA	GCAGCGATAT	CTCGAACTTT	GTCCAATAAA	TCCCAAATAT	10080
CTGGTTCCAC	AAAGAAATCA	TTAGTATCCA	ATTTCTTCAC	TGCATAAGCA	AAGGCATCTA	10140
GACGAATCAA	ATCACACCCA	TTACTTGCCA	AGTGCTGAAT	GGTCTTACGG	АТАААТТССА	10200
TAGTTACTTC	TTTGGTCACA	TCAAGATCAA	TCTGCTCCTC	ACCAAAGGTA	ТТССАСАААТ	10260
GTTCCACTGA	ACCATCTTCA	AACACAATCT	CTTGCTTTGG	TGCACGATCC	TTACGCTTGT	10320
AAATTAAATC	TACATCAGAC	TGTGTCGGAC	GGTTTTCTGG	ССААААСТТА	TCCCAGTTTA	10380
AAAAGAGAGC	TTTAAATTCA	CTGGCTTCAT	GTTTTTCTTG	ATAGTCCTTA	TAATACTTGG	10440
ATTGACGAGA	AATATGATTA	ATCATAAAAT	CAAACATAAG	ATAATATTTC	тсасставас	10500
GCTTCACATC	CTCCCAATCA	CCAAAAGCTG	AGTCCACTTC	GTCGTAGTCA	ACTGGCGCAA	10560
ATCCACGATC	AACTGTTGAT	GGGAAAAATG	GTAAAAGGTG	AACTCCTCCA	ATAGCATCTC	10620
CAAAATGCTC	TTCCAAATTA	TCATATAAGT	CTTTAAGATT	ATTTCCAAGG	CTATCAGAAT	10680
AGGTAATCAA	CATGGTTTTA	TTTTGAATTG	GCATCATTAC	TCTCCTTTTT	CTAATTGAAG	10740
CCAAGTCTCA	TATGATCTGG	CTTCATAAAT	AAAATTCATT	TTAAATCTCT	ATTTATCATC	10800
AAACTCGTAC	TAATATAGAC	TGTGATAAAC	AAAGTACTAC	TTTCTTGTTT	TCTGCATAGA	10860
ATTATCAACA	AGCTAAACTC	TTCCTCTGTG	TCAAAGACTA	TAGATTCCAT	GAGCTCTTCT	10920
TATACTCTTC	GAAAATCTCT	TCAAACCACG	TCAGCTTCAC	CTTGCCGTAG	GTATGGTTAC	10980
TGACTTCGTC	AGTTTCATCC	ACAACCTCAA	AACAGTGTTT	TGAGCAACCT	GCGGCTAGCT	11040
TCCTAGTTTG	CTCTTTGATT	TTCATTGAGT	ATTACTTCAC	TGCCCCGTTG	CTCATTCCTG	11100
AAATGATATG	GCGTTGGAAG	aagagataga	CAATGGTGAT	ACTGATAATG	CCGACCACGT	11160
AAGAGGCAAA	GCTTGGTCCG	TAGTCGTTGA	AATATTGGCC	TGCGTAGTTG	TATTGGAACA	11220
AAGGCAGAGT	CCACATTTTG	GAATCCCGGT	TCAAGACAAG	GAGTGGCAAC	ATGAAGTCAT	11280
TCCAGAACCA	AAGGGCATTG	ATGATCATGG	TTGTCGCATG	CATCGGTTTC	ATCATTGGGA	11340
AGATGATGCG	GAAATAGGTT	GTAAATTGAT	TAGCCCCATC	GATCTCTGCT	GCTTCATCCA	11400
GACTTTCTGG	AATCGAGATT	TTGATATAGC	CAACATAGAG	AAAGAGGGTC	TGTGGAATCG	11460
CATAGGTCAA	GTAGAGCAAG	ATCAAACCAA	AGGTATTAGC	CAAACCGAGT	TTACTCATCA	11520
TAACCGTAAT	CGGAATCATG	ATGACTTGGA	AAGGTACGAA	GATTCCGAGG	ATTAAGAGGG	11580
TATACATGAT	GGTAAAGGCT	TTTCTTTTAC	TCATATTGCG	AGCGATGGAG	TAGGCTGCCA	11640

TAGGGATAAA GATCATTACT GCAAGTAAAG ACAAGACAGT GATGACGACA GAGTTCCAAT 11700 AATAGCCTCC AATCCCATCA GCTAAGAGAC GGCTAAAGTT GTCCCATGTG AAGTTGGTTG 11760 GAAAGCCAAA GAAATTATCT ACAATATCCT TAGTGGGTTT GAAGGAACTA AAGAGGGTAG 11820 CAAGGAGCGG CACTAAAATC AGAACCGATC CTAGAATCAA TAGAATGTAT TTGCCAATCA 11880 GGGCTTTTCT TTCATCTTGT TTCATCATGC TTCTCCTCTT AAATTTCAAA TTTCTTAGAT 11940 ACTCTCAATT GGATGATCGA AATCACTACA ATTAAGAAGA ACAAGATTAC GGCAATGGCA 12000 TTGGCATAAC CGAATTGGTT GTTTTTAAAG GCATAGTTAT AAACCAAGAG CCCAAGTGAG 12060 GTTGTGGCAT TGTTTGGACC ACCACCGGTC ATGGCAAAGA CTTGGTCAAA GGCAGTCAGC 12120 CCACCTTTTA GGGCTAGGAT AAAGACCATA GAGACACTTG GTAGCAAGTA AGGCAATTCA 12180 ATGTTCCAGA AAACTTGCTT GCTAGTCGCA CCATCAATCC TTGCTGCCTC TGTAATCTCA 12240 GTTGGAATAG ATTGCAAACC AGCTAGGAAG ATGATGATGG GCATAGCCAC CCCTTGCCAA 12300 AGAAGGACAA AGACAGCCGC AAAGATTGCT CCCCACTTAG TCCCTAAAAG ACTGGTTTGG 12360 AAAAATTCAA TATGAAGGGC ATTTCCAATC GCTGGAAGAC CGTAGTTGAA GACTTGCTTG 12420 AAGATCAAAG CCACTGTCAA ACCAGATAAA ACAGCTGGGA AGAAGAACCA AGCACGGAAG 12480 AAGGTTTGGC CTTTGATTTT AGAATTCAAG ACACGCGCAA TGAAGATCCC GAGTGCAATC .12540 TCACCAACCA CCATGCAAT CGCAATGATT GCGGTAAAGC CAATCGCATT CATGAATTTT 12600 GGATCCATGA AGAGGAGCTT AAAGTTGTTT AAGCCAACAA ATTTGTAGTT ATAAGTCAAT 12660 CCTGTCCAGT TGGTAAAACT GTAAAAGGCT CCTTGAAACA TCGGCACATA GAAGAAAATT 12720 GCTTGTAACA AGAGGGGGAT GACCACAAAA GCCCATGCCC AATATTTTTG TAATACTTTT 12780 TTCATAGTCT CTCTACTCCT AATCCACATC CGCTTTCATC GGGTTAAAGA AGGCATTCAA 12840 ATCATTGACC ATGCCTTGTT TATCACCGGT CAAGACATAG TTCATGGTCA AGGTATGGAA 12900 GTCTGCTTCA CTGGTCCAGT ATTGTTGCAA CCAGACCAAG TGACGATCCG TAAAGGCATA 12960 TTCGGTCATA CCAGCAAGCG GTGAATCTTC TCCTGCTTGT TTGACCCCTT CGATCGCTGT 13020 TGGAGATCCG TCCACATCGT AGTATTTTTG CATGACTTCT GGACGGGTCA TATATTCCAC 13080 AAAGGCATTG GCTTCTTTTG GATGTTTGGT GGTGGCTGAG ATAGACCATG CCAAGTCTCC 13140 CGCACCAACG GTTAAGCTTT GTCCTTTTC TTTTCCTGGA ATCATGAAGG TCCCAATCTT 13200 AAAGTTCGGT TTTTGTTCAT TAATCGCTGT GATCGCCCAA GACCCATTTG GTGTCATGAG 13260 GACATCCCCA CGTGCGAAGG CTCCGATAAC ATCGGTATAG CCAGCACCTT CCCAGTTCTT 13320 TTGCTTAGAT CCATTGATGC GAAGGATGTC CATGACCTTG ATATCATCTT TCATAATCGG 13380 ATCCGACAAT TTAATGGCAT, TTGGTTGAGA ATAACGAAGG TATTGATTTG CTTCTTTTCC 13440

TCCACCTGTT	GCTGTCGCAA	AGGCTAATTG	ATTGTAACCA	TTGAGTGTCC	AAGCATCTGC	13500
ACCTGCAATT	CCAAATGGTG	TTTGTCCTTT	AGCAACGATA	TCTTTGACTA	ACTGTTCAAA	13560
TTCATCCCAG	GTTTCAGGAA	CCTTCAAGCC	CAGTTCTTCG	AATTTATCTT	TGTTGTAGTA	13620
AATTCCATAA	GCATTAGCTG	TAAAAGGAAC	GTTGTAAACT	TTTTCGTTTA	CAGCATATTT	13680
TTCAGCGTAG	CCATTTTTCA	CGCGTTTCAG	GTAGTCTTTG	TTGCTCAAAT	CTTCAAAAAC	13740
ACCTGCTTTT	GCCCATTCTT	GCAGTTCGAT	GGACTGTGGG	TAAATATTGA	CCACATCAGG	13800
CACATCTCCT	GCGAGAACGC	GTGTCTTCAA	TACTTCACCA	GCATTTGGTA	CATTGACGAC	13860
TTTGACCTTG	ATCTTAGGGT	TTTCCTTCTC	AAAATCACGA	GTGATTTCTT	CCAAGGTTTT	13920
GGTCATTTCT	TTTTTCTGGT	TGAAATACTC	GATGGTCACT	GTGCCATCCG	CAGATTTACC	13980
ATAGTTGGAG	CAAGCGCCGA	GCCCAAACAA	AGCTAAACCT	GTAGTTGCAA	GAAGTCCGAT	14040
тттттатас	CATTCCATTA	GAAAGCCTCC	тттатааатт	TATACACCCT	TATTGAACTG	14100
CACCCCAAAA	GTTAGACAGA	ATAAATCTAA	CTTTTGGGGT	CAGTACATAT	CATAGTTTTC	14160
ТАААААТАТА	CTGTCTACTC	AAAAAATCTC	CTTGGGATAA	GATAACAGTT	AAGCCCGCAT	14220
ACATTAGTTC	TGCACCTGAG	TAAACTTCGC	CATTTTCCTG	TAATTTATAT	AGTCCCTCTT	14280
CATCCAAATC	TTTTAATTTT	AAAGTTGTTT	CCATGGTCTC	TACAACAGAT	AAAACGCGAA	14340
CGTAGGTTAC	AATCGTTTGA	TTTCCGTAAT	TAAATTGTAC	AGCTGCTTCA	TTGGATACAG	14400
TATCAGGATT	AATTAGTCTA	TACTGCTGTC	CTAACTGAAC	TACTGGTCGT	AATTCTTTAT	14460
ACAAGTTCAC	CTGATTAGCA	ATCGTAGCTT	TCTCTTCATC	TGATAAATTT	GTCAAATCAA	14520
GTTCATAGCC	CAAATTTCCC	ATCATTGCTA	CAAGGCCACG	TGTTTCTAAT	GGTGTCATTC	14580
GTCCCATCTG	ATGATTCGGT	ACTGCTGACA	CATGAGCCCC	CATAGAAATG	GTTGGATAGA	14640
GATAGGATGA	ACCGTATTGA	ATTGGTAAAC	GTGCAATGGC	ATCAGTATTA	TCACTAGCCC	14700
AGACTTGTGG	GAAATAGCGC	ATCATACCAA	GATCATTTCG	TCCACCACCA	CCAGAGCAGG	14760
ACTCAAAGAG	AATATGGCTG	TGCTTCTCTG	TCAGATAAGA	AACGAGTTCA	TAAAGCCCCA	14820
GCATGTACTG	ATGAGATTGC	ATCTGTGTCT	CTAGATAAGT	TAATCCATTC	CCTAGCTTAG	14880
TGATATTGCG	GTTCATATCC	CATTTAATGT	AATCAATATC	ATGATAAAAT	AGGAGTTGAT	14940
CTAAGACACT	TTTCAAGTAT	TCTACTACCT	GAGGATTGGC	AAGATTAAGT	ACTAATTGAT	15000
TCCGAGAATA	AGTATGCTCA	TAGCCAGGAA	CCTGAATAGC	CCAGTCAGGA	TGTTGACGAT	15060
ACAAATCACT	ATCTACAGAA	ATCATTTCGG	GTTCTAACCA	AAGTCCAAAC	TGCAAACCTC	15120
TTTCATGGAT	AGCTGAAATC	AGACTTTCTA	GACTTCCACC	CAGTTTTTCC	TCATTAACAA	15180

760 CCCAATCACC TAAAGCACGA TTATCATCAA AACGATTGCC AAACCAACCA TCATCTAATA 15240 CAAAAAGTTC AATGCCAACT TTCTTAGCTT CATCTGCTAA CTCTAACAGT TTTTCTCTCT 15300 GAAAGTCAAA GTAAGTAGCT TCCCAGTTAT TGATTAGAAT TGGACGTTCT TTTTTAGAAA 15360 ATTCACTTAG CATAATGTGC TTCAGTACAA AATTCTGACT TTCATGACTA ATACCAGTTA 15420 ATCCCTGATC TGAATGAGTC ACTAAAGCTA CCGGTGTTTC AAAGTATTCC TCAGGAGCTA 15480 ACTTCCAAGA AAAGTTTTCT GGATTAATGC CAATAGCCAC CCGAACTTCA TTCAATTGAT 15540 TTTTTGAAC AAAAGCTTCA AAGTTGCCAC TATACATTAG TTGAATAGCA AACACATTCC 15600 CAGCATCCTC TGTGACTCCT TGTTCGCATA GTAGAAGAGC TGGTGTTTGA GCATGACCAG 15660 AAGCACCTCG GTTTGAACTA ATCGAAAAGA TTCCTTGTTC TACCTGTTGA CGTCTAACAG 15720 TCTTTTCACG AGCATAAGCA CCCTGCAGAG TTACTATTTC GTAATCTGCA GCTGGAAAAT 15780 CAGCCATAAA AGAAAAATCT TTATGGATGA CAACTTCCTG ATTACTATTA TTATCTAATT 15840 TACTGTAGCT AGCAATAGTC GCATCATTAT TAAAAGTAGT ATAATACAAA GTCAGACTAA 15900 GTTGAGCCTT AGAATCTTCT AACATTAAGA CAAGAGTCTC TGTATCGTCC ATGCTATGTG 15960 GAGAAGGTAA GCCCTGTGGA CCATTCTGAC CTTTTAAAAT CTTTGCTTCT ACAAATCGAA 16020 AGTCTGTTAC TTCAGTTACA CTATGCTGAA CCTGTATGGT TGGTTTCCTA AAATCTCCTA 16080 AGCCATGTTG TCCAAAAATC TGTCGCTGAG TATCTAAACT AAAGGTTCGA TTAGTAGCCG 16140 TTGGATTTCC TGAAAAGGCA TGGTCTCGTT CATAAACACT ATTGGAACCT TTATAGTTCT 16200 TAATAGTCTT TCCTAAATGT TTCAAAAGTA AGTAGCCATT TCGATTTTCA ATAATCAAAC 16260 TTAGATTTTT ACTCTCAACA TAAAATAGAT TATTCTCTAT CCTAACTCCC ATTTACTTCA 16320 CCTCATCACT TTATTGATTA TATTTTATCA CCTGAAATCG CTTTCCAAAA TAGAAAAATG 16380 TCTCAAGAAT ATGGTAAAAT GTTAGGTAGG AGGTAGCACA TGTTAGTTTT TTCAGAATAC 16440 CAGACTGGAA CAATCGACCT TGCCCTAAGC TTTTATGGAT ATGAGGAATG CACACCTAAT 16500 16560 GGAAAATTTC ATTACAAGGG TAAAATTGTT GATTTAAAAG AAGGAGATTT CTTTCTATTA 16620 AAACCAGAGG AACTAACCTT TTATCAAGCA GATAGTAAAG AACCTTGGGC CTACTACTGG 16680 TTAGGAATCA CTGGAGGGAA AGCCCCTGAT TATTTTGCTC TTTCCCAAAT TTCTGATCAA 16740 TCCTATCTCA TCCAATCTGA AACTTGTCAT ACCCAGACTA CTGCAAAACT CATCTCAGAC 16800 ATTGTCCGCT TCGCTCAGAT TACAAAATCA AGTGAATTAG CTCAACTCCA TATCATGGGA 16860 CAACTTCATG AACTGATGTT TCATCTGGGA ACTATTGCTC CCAATCAGAA AAAAAAGAAT 16920 ATTTCATCAA CCCACCAACT CTATCTTGAA TGCAAACGAT TAATTGATAG CCACTATCCT 16980

CAATCACTTA	CAATTCAAGA	TTTAGCAAAA	GAACTATCCG	TTCACAGAAG	CTACTTATCA	17040
AGCGTATTCA	AAGAATTTAA	TACCTTATCA	CCCAAAGAAT	ACCTACTCTA	CGTTCGAATG	17100
CACCGAGCTA	GACAACTTCT	CGAAAATACC	CAAGAGTCCA	TCAAGGTAAT	TGCATACTCG	17160
GTAGGTTTTT	CAGATCCACT	CCATTTTTCG	AAAGCTTATA	AACAATACTT	TAATCAGACT	17220
CCAAGTCATA	CAAGAAAAGA	ATACTCTCAA	TACCAACTAG	TAAGAAAGGC	AACATTATGA	17280
AATCCTACCA	AGCTGTCTAC	CAAATCCTAT	CTAAAGAAAC	CGACTATATC	AGCGGAGAAA	17340
AAATCGCAGA	AAAACTATCC	CTAAGCCGAA	CAGCAATTTG	GAAAGCCATC	AAGCGACTAG	17400
AACAAGAAGG	CATTGAAATT	GATAGTATCA	AAAATAGAGG	АТАТАААСТG	ATGAATGGTG	17460
ACCTTATTCT	TCCAGAGATT	CTAGAAGAAA	ATCTTCCAAT	TAAAGTCAGC	TTTAAACCCG	17520
АААСААААТС	AACACAACTA	GATGCAAAAG	AAGCAATTGA	TTTAGGCCAT	GAAGCAAATA	17580
CCCTCTATCT	AGCTTCCTAT	CAAACAGCAG	GCCGAGGCCG	TTTTCAACGT	TCCTTCTACT	17640
CACCACAAGG	TGGTATTTAT	ATGACACTCC	ATCTTAAACC	AAATCTCCCC	TATGACAAAT	17700
TACCATCCTA	CACACTACTT	GTAGCTGGAG	CTGTCTACAA	AGCCATTAAG	AACCTAACTT	17760
TAATAGATGT	CGACATAAAA	TGGGTCAATG	ATATCTATCT	AAACAATCAT	AAAATTGGAG	17820
GAATCCTTAC	TGAAGCAATG	ACCTCTGTAG	AAACTGGCTT	AGTCACAGAT	ATCATTATTG	17880
GAGTAGGTAT	CAATTTCACT	ATTAAAGACT	TCCCTCAGGA	attaaaagaa	AAAGCTGCCA	17940
GCTTATTTAA	AGCTACAGCT	CCTATAACAA	GGAATGAATT	GATCATAGAA	ATCTGGCGTG	18000
CTTTCTTCGA	AACACCAGCA	GAAGAGCTAT	TATACCTATA	CAAAAAACAG	TCATTCATTC	18060
TAGGAAAAGA	AGTCACTTTC	ACACTAGAGC	AAAAAGACTA	CAAGGGACTT	GCTAAAGACA	18120
TCTCAGAAAA	TGGAAAACTT	TTAGTTCAAT	GTGATAACGG	AAAAGAAATC	TGGCTAAATA	18180
GTGGCGAAAT	TTCTCTCAAT	AGTTGGAAGT	AAAATAACAC	ААТТАТААТА	TAAACGATAT	18240
AAAAATAACT	TCAGATTAGT	AATTCAATTA	AGTTTTACGG	ATCTGAAGTT	TTATTGGCTC	18300
TAAAAATAAA	AAAGAGAGTT	ACAGACTCTC	ATTAAAACGG	AGAATAAGGG	ATTCGAACCC	18360
TTGCGCCAGT	TACCCGACCT	AACGATTTAG	CAAACCGTCC	TCTTCAGCCT	CTTGAGTAAT	18420
TCTCCAATTA	ATGGGCACGA	GTGGACTCGA	ACCACCGACC	TCACGCTTAT	CAGGCGTGCG	18480
CTCTAACCAC	CTGAGCTACG	CGCCCAAGTT	AAAAAACTTG	GTAATTTGAA	CAAAGTTCAA	18540
AGCGGGTGAC	GAGAATCGAA	CTCGCGACAA	CAGCTTGGAA	GGCTGTAGTT	TTACCACTAA	18600
ACTACACCCG	CATAAATACT	ATCAATAAAA	TGGCGCGAGA	CGGAATCGAA	CCGCCGACAC	18660
ATGGAGCTTC	AATCCATTGC	TCTACCAACT	GAGCTACCGA	GCCTTATTGC	GGGAGCAGGA	18720

762 TTTGAACCTA CGACCTTCGG GTTATGAGCC CGACGAGCTA CCGAGCTGCT CCATCCCGCG 18780 TTAATAATAT AAAAGGAGGA TGTGGGATTC GAACCCACGC ACGCTTTTAC ACGCCTGACG 18840 GTTTTCAAGA CCGTTCCCTT CAGCCGGACT TGGGTAATCC TCCAATATTC AAATGGACCT 18900 TGTAGGACTT GAACCTACGA CCACTCGGTT ATGAGCCGAG AGCTCTAACC AGCTGAGCTA 18960 AAGGTCCGAC AAGATCATTA TAGCGGCGAA GGGGATCGAA CCCCCGACCT CCCGGGTATG 19020 AACCGGACGC TCTAGCCAGC TGAGCTACAC CGCCATGAAT CGGGAAGACA GGATTCGAAC 19080 CTGCGACACC TTGGTCCCAA ACCAAGTACT CTACCAAGCT GAGCTACTTC CCGAGTTAAA 19140 TAGAAAAATG CACCCTAGAG GAGTCGAACC TCTAACCGCC TGATTCGTAG TCAGGTACTC 19200 TATCCAGTTG AGCTAAGGGT GCTCCATATT ATGCCGAGGA CCGGAATCGA ACCGGTACGA 19260 TCGTTACCAA TCGCAGGATT TTAAGTCCTG TGCGTCTGCC AGTTCCGCCA CCCCGGCCTC 19320 TCTAAGCGAA CGACGGGATT CGAACCCGCG ACCCCCACCT TGGCAAGGTG GTGTTCTACC 19380 ACTGAACTAC GTTCGCACTG TTTTCTTCTA TCTAAAAATG CCGGCTACAT GACTTGAACA 19440 CGCGACCCTC TGATTACAAA TCAGATGCTC TACCAACTGA GCTAAGCCGG CTCATTTGTT 19500 ATATCTTAAT GCGGGTTAAG GGACTTGAAC CCCCACGCCG TTAAGCGCCA GATCCTAAAT 19560 CTGGTGCGTC TGCCAATTCC GCCAAACCCG CATATATGAC CCGTACTGGG CTCGAACCAG 19620 TGACCCATTG ATTAAAAGTC AATTGCTCTA CCAACTGAGC TAACGAGTCT AAAATAACTT 19680 GCGTTACCTT AAACGGTCCG ACGGAATCGA CCCGGTAC 19718

#### (2) INFORMATION FOR SEQ ID NO: 100:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 4117 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 100:

CCGTGGAAAA	GTCTGGATAG	TGAATGGTCT	TCACACAATG	ACCTGAAAGA	AGCCTGAGAA	60
TAATTATGGA	GAGTAGCATT	CTGAGAGGTG	TTAGCAGAAC	CATATGACAG	AGCTGTTTGA	120
AGAGGGAATA	TTGAGGAGAA	AAATCCTGAG	CCTACCAGTT	GGAGTTGGAA	AGAGCTGACT	180
GTTAGATCAT	GGTTTATTAT	CCACAACCTG	TGGATAACTT	TGTGAATAAG	AGAAGTTGCT	240
AAAGAAGGAG	ATATATAACG	ATGAAGAAAA	TCAAACCGCA	TGGACCGTTA	CCAAGTCAGA	300
CTCAGCTAGC	TTATCTGGGA	GATGAACTAG	CAGCTTTTAT	CCACTTCGGT	CCTAATACCT	360
TTTATGACCA	AGAATGGGGG	ACTGGACAGG	AGGATCCTGA	GCGCTTTAAC	CCGAGTCAGT	420

PGGATGCGCG	TGAGTGGGTT	CGTGTGCTCA	AGGAAACGGG	CTTCAAAAAG	TTGATTTTGG	480
rggtcaagca	CCACGATGGC	TTTGTCCTTT	ATCCGACAGC	TCACACAGAT	TATTCGGTTA	540
AGGTCAGTCC	TTGGAGGAGA	GGAAAGGGCG	ACTTGCTCCT	TGAAGTATCC	CAAGCTGCCA	600
AGAGTTTGA	TATGGATATG	GGGGTCTACC	TGTCACCGTG	GGATGCCCAT	AGTCCCCTCT	660
ATCATGTGGA	CCGAGAAGCG	GACTACAATG	CCTATTATCT	GGCTCAGTTG	AAGGAAATCT	720
PATCAAATCC	TAACTATGGG	AATGCTGGTA	AGTTCGCTGA	GGTTTGGATG	GATGGTGCCA	780
BAGGAGAGGG	CGCGCAAAAG	GTTAATTATG	AATTTGAAAA	ATGGTTTGAA	ACCATTCGTG	840
ACCTGCAGGG	CGATTGCTTG	ATTTTTCAA	CAGAAGGCAC	CAGTATCCGC	TGGATTGGCA	900
TGAACGAGG	GTATGCAGGT	GATCCACTGT	GGCAAAAGGT	GAATCCTGAT	AAACTAGGAA	960
AGAAGCAGA	GCTGAACTAT	CTTCAGCACG	GGGATCCCTC	GGGCACGATT	TTTTCAATCG	1020
BAGAGGCAGA	TGTTTCCATC	CGTCCAGGCT	GGTTCTACCA	TGAGGATCAG	GATCCTAAGT	1080
TCTCGAGGA	GTTGGTCGAA	ATCTACTTTC	ACTCAGTAGG	GCGAGGAACT	CCACTCTTGC	1140
TAATATTCC	GCCGAATCAA	GCTGGGCTCT	TTGATGCAAA	GGATATTGAA	CGACTTTATG	1200
ATTTGCGAC	CTATCGCAAT	GAGCTCTATA	AAGAAGATTT	GGCTCTGGGA	GCTGAGGTAT	1260
TGGTCCAGC	TCTTTCCGCA	GACTTTGCTT	GTCGCCATTT	GACAGACGGC	CTTGAGACCA	1320
CTCTTGGGC	AAGCGATGCA	GACTTGCCCA	TCCAGTTAGA	ACTCGACTTA	GGTTCTCCTA	1380
AACTTTTGA	TGTAATTGAG	TTAAGAGAAG	ATTTGAAGCT	AGGGCAACGA	ATCGCTGCTT	1440
TCATGTGCA	agtagaggtg	GATGGTGTCT	GGCAGGAGTT	TGGTTCGGGT	CATACTGTTG	1500
TTACAAACG	TCTCTTACGA	GGAGCAGTTG	TTGAGGCACA	GAAGATACGT	GTAGTCATTA	1560
AGAATCACA	GGCTTTGCCT	TTGTTGACCA	AGATTTCCCT	TTATAAAACT	CCTGGATTAT	1620
CAAAAAAAGA	AGTTGTTCAG	GAACTAGCAT	TTGCAGAAAA	AAGCCTAGCT	GTGGCAAAGG	1680
BAGAAAATGC	CTATTTTACA	GTTAAGCGCA	GAGAATGTAG	TGGTCCTTTA	GAAGCTAAGA	1740
TTCGATTCA	ACCGGGGACA	GGTGTCCATG	GTGTCGCCTA	TCAGGATGAG	ATTCAAGTCC	1800
TGCGTTTCA	AACTGGTGAG	actgaaaaaa	GTCTGACGCT	ACCAACCTTG	TATTTCGCAG	1860
<b>AGATAAAA</b> C	CTTGGATTTC	TATCTGAACC	TAACGGTGGA	TGGTCAGCTT	GTGGATCAAC	1920
TCAAGTCCA	AGTTTCATAA	AAGAAGAACC	TTTGCGCGAT	GCAAAGGTTC	TTTTGGTTAT	1980
AGTGACTTG	GTAACCAGCT	GAGGGTGAAA	GTTAGTTGTT	CAGCTTTTAA	GAGGTCTTGG	2040
'GTTGAATÂG	TTGATACGAG	TGTTTTGTCC	AGTCGGCATT	CTTTGACAAA	GTTAAAATGG	2100
TGTGGTTTT	GTTTAGTATG	GATATCCAGC	САТТТАТСТТ	CTTTAGCGAG	GTAGACTCGT	2160

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AGATGGTCAA	AGAGAGGGAT	TCCGAGGTCA	TAGCTTGGTT	TTCCTGGACA	GGTTGGATAA	2220
AATCCGAGAG	CTGACCAGAT	GTACCAAGCA	GAGAGACTAC	CATTGTCTTC	ATCTCCAGGA	2280
TAGGCTTCCC	AACTTGGGTG	AAAAGCTTTC	TGACGGAGCG	TCTTGATAAG	AAGGGCAGTG	2340
TAGTCAGGGT	AATCGCTGTA	ACGGAAGAGA	TAAGGAATGT	GGAAACTAGG	CTGGTTGGAA	2400
ATGGCTATTT	GTCCAAAAGG	AGCAGTAGCC	ATCTCGCTCA	TTTCGTGAAT	TTCGTAACCA	2460
PAGCCTGTTG	TTTCAAAGAG	GGGAGCATCT	TGACAGGCTT	TCAAAAGATA	GTTGCTAAAG	2520
GTTTCTTTTC	CACCCATCAG	TTGGATTAAG	CCAGGGATGT	CGTGGAGAAC	GCCTAAAGTA	2580
GCTTGAATGG	CAGAGCATTC	AGCGTAGTCT	CGCCCCAAC	TATAAGGAGA	GAAGTCAGGG	2640
TGAAAGTTTC	CTTGATTGTC	TCGTGCTCGC	ATGTAACCTG	TCTCAGCGTC	AAATAGCTGG	2700
CGGTAATTTT	GTGAAGCAGC	CTTGTAGGTT	TCAGCGATTT	CTATGTTCTC	TAGTTTTTTG	2760
GCACAGCTGG	CGATACAAAA	GTCACTATAG	GCATAGTCTA	GAGTATGGCT	AACACTTTCG	2820
TGGTGGTCGG	TAGAGAGGTA	ACCTAGTTCT	TGGTATTGGG	CTAGTCCGTG	GCGGCCATTG	2880
ATGCCGAGAG	GGTCGGCTTT	GCTGGCTGTT	TCGAGCATGG	CTTGGAAGAG	TTCTCCTTCT	2940
AGGTCGGGGG	TCATGTCCTT	GCAGGCGCTA	TCTGCGATAA	TACCGTCTAA	AAGTGTACCT	3000
GGCATCATAC	CCCGTTCATC	TGGAGCCAGC	CATTTTGGAA	GGAAACCAGT	ATCGCGGTAG	3060
CTATTGAGGA	AACCTTCTAA	AAAGCGTTGA	TAGTGCTCCG	GTATGATAAG	GGCAAAGAGG	3120
GGGAAGGTGG	TGCGGAAGGT	ATCCCAGAAA	CCATTGTTGC	TAAAGAGGAC	ACCAGGCTTG	3180
ACAGTACCAG	TAGCCAGATC	CATGTGGATG	GCTTGCCCTG	ATTCATTAAT	CTCATAAAAA	3240
GTCTGTGGGA	AGAGGAAGAG	TCTGTAGAGG	CAGTGGTCAA	AGAAGGTTCG	GTCAGCCTCT	3300
CCTGTCTCTA	TAATGTCAAA	ACGATGGAGG	AGATTTTCCC	AATCCACTTG	GGCACTTGAT	3360
PTACAGCTAT	CAAAATCTTC	TTGAGGTAGA	TTGATTAGAG	CTTGAGAAGG	AGAGATGAAA	3420
GAAGTGGCTA	GTTGCATCTC	GGTTTGACTA	CTTGCTAAGT	CAATTCGCCA	GTCTCCAGCT	3480
PCTTGGCTGA	TAGCAAGAAT	ATCCGTGTTC	ATTTGCAGGG	CAGTGAACAT	CGTTAGCGAA	3540
PTTTTGTTAG	TTTCAGTTTT	ACCTTCTTGT	CGCAGGGCAA	GAGTCCGCTT	ATCTACTTGC	3600
PCTACTGTCA	GTTCATCTGC	TGCGTGAAGA	TAGAGGGAGA	GGGCTTTGCC	TTGCTTTTGA	3660
PTCAAACGAA	TAGAAGCACC	ATAGCAAGTC	GGTGTGAGCT	GGGTTTCAAT	CTGATAACGC	3720
AGAGAAAAGA	GCTTCAAATA	GTGAGGCTGG	AAGCAAGCTT	TATCTATATC	ATAAGAAGAC	3780
PGGCGGTGAA	AGAGGCTGTC	TCCCCCCAGT	TGACTGGTGA	CAGGTGTCAG	AAGGAGCCAA	3840
GAGTAGTCCC	CAATCCAAGG	ACTGGGCTGG	TGAGTTAATC	GAATCCCCTG	AAAGATAGGC	3900
AGATGTGGAT	CAAAAAACCA	AGATCCATCC	TGGTCACTGG	TCTGGGGCAC	AAAGTAATTC	3960

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ATCCCAAAAG	GCACGCCTGT	GTATGGCAGG	GTATTTCCCC	GAGAAAAGGC	ATGCTTGTTG	4020
GTAGTTCCAA	AACGGGTATC	GATGGTATCA	AGTAGTGGTT	TCATAGTCTT	TCCTTTAGCT	4080
GTTTTTCTAC	ATTATATCAG	TAATAGAGGG	CCTTTAG			4117

#### (2) INFORMATION FOR SEQ ID NO: 101:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 2727 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 101:

CTGGTTCAAT TATTATTCAC	TCTAAGTAGT	CATATGTTCT	TTATTTATGT	GAGTTTTTAC	60
CTTTTAAAGG ATCTTGTTAG	ATGGGAGAAG	GTTTTAAAAG	TGACAGATGA	TAATACAAGA	120
AAAGTTCGTT TATTAGTAGC	CTTTTTTAGC	ATTGTCATAG	GCTACATCCT	GAGTTCTTTC	180
TTTATTAGCC TGTATCATTT	GTGGCAAGAA	GCGCTTAGAG	GATTATTATG	AAATCAAGAG	240
TAAAGGAAAC GAGTATGGAT	AAAATTGTGG	TTCAAGGTGG	CGATAATCGT	CTGGTAGGAA	300
GCGTGACGAT CGAGGGAGCA	AAAAATGCAG	TCTTACCCTT	GTTGGCAGCG	ACTATTCTAG	360
CAAGTGAAGG AAAGACCGTC	TTGCAGAATG	TTCCGATTTT	GTCGGATGTC	TTTATTATGA	420
ATCAGGTAGT TGGTGGTTTG	AATGCCAAGG	TTGACTTTGA	TGAGGAAGCT	CATCTTGTCA	480
AGGTGGATGC TACTGGCGAC	ATCACTGAGG	AAGCCCCTTA	CAAGTATGTC	AGCAAGATGC	540
GCGCCTCCAT CGTTGTATTA	GGGCCAATCC	TTGCCCGTGT	GGGTCATGCC	AAGGTATCCA	600
TGCCAGGTGG TTGTACGATT	GGTAGCCGTC	CTATTGATCT	TCATTTGAAA	GGTCTGGAAG	660
CTATGGGGGT TAAGATTAGT	CAGACAGCTG	GTTACATCGA	AGCCAAGGCA	GAACGCTTGC	720
ATGGTGCTCA TATCTATATG	GACTTTCCAA	GTGTTGGTGC	AACGCAGAAC	TTGATGATGG	780
CAGCGACTCT GGCTGATGGG	GTGACAGTGA	TTGAGAATGC	TGCGCGTGAG	CCTGAGATTG	840
TTGACTTAGC CATTCTCCTT	AATGAAATGG	GAGCCAAGGT	CAAAGGTGCT	GGTACAGAGA	900
CTATAACCAT TACTGGTGTT	GAGAAACTTC	ATGGTACGAC	TCACAATGTA	GTCCAAGACC	960
GTATCGAAGC AGGAACCTTT	ATGGTAGCTG	CTGCCATGAC	TGGTGGTGAT	GTCTTGATTC	1020
GAGACGCTGT CTGGGAGCAC	AACCGTCCCT	TGATTGCCAA	GTTACTTGAA	ATGGGTGTTG	1080
AAGTAATTGA AGAAGACGAA	GGAATTCGTG	TTCGTTCTCA	ACTAGAAAAT	CTAAAAGCTG	1140
TTCATGTGAA AACCTTGCCC	CACCCAGGAT	TTCCAACAGA	TATGCAGGCT	CAATTTACAG	1200

			766			
CCTTGATGAC	AGTTGCAAAA	GGCGAATCAA		GACAGTTTTC	GAAAATCGTT	1260
TCCAACACCT	AGAAGAGATG	CGCCGCATGG	GCTTGCATTC	TGAGATTATC	CGTGATACAG	1320
CTCGTATTGT	TGGTGGACAG	CCTTTGCAGG	GAGCAGAAGT	TCTTTCAACT	GACCTTCGTG	1380
CCAGTGCGGC	CTTGATTTTG	ACAGGTTTGG	TAGCACAGGG	AGAAACTGTG	GTCGGTAAAT	1440
<b>IGGTTCACTT</b>	GGATAGAGGT	TACTACGGTT	TCCATGAGAA	GTTGGCGCAG	CTAGGTGCTA	1500
AGATTCAGCG	GATTGAGGCA	AGTGATGAAG	ATGAATAAGA	AATCAAGCTA	CGTAGTCAAG	1560
CGTTTACTTT	TAGTCATCAT	AGTACTGATT	TTAGGTACTC	TGGCTCTAGG	AATCGGTTTA	1620
ATGGTAGGTT	ATGGAATCTT	GGGCAAGGGT	CAAGATCCAT	GGGCTATCCT	GTCTCCAGCA	1680
AAATGGCAGG	AATTGATTCA	TAAATTTACA	GGAAATTAGG	CTGGAGAACC	AGCCTTTTTC	1740
<b>FAAA</b> GATAAG	GAGAAATATG	ААСАААААА	CAAGACAGAC	ACTAATCGGA	CTGCTAGTGT	1800
PATTGCTTTT	GTCTACAGGG	AGCTATTATA	TCAAGCAGAT	GCCGTCGGCA	CCTAATAGTC	1860
CCAAAACCAA	TCTTAGTCAG	AAAAAACAAG	CGTCTGAAGC	TCCTAGTCAA	GCATTGGCAG	1920
AGAGTGTCTT	AACAGACGCA	GTCAAGAGTC	AAATAAAGGG	GAGTCTGGAG	TGGAATGGCT	1980
CAGGTGCTTT	TATCGTCAAT	GGTAATAAAA	CAAATCTAGA	TGCCAAGGTT	TCAAGTAAGC	2040
CCTACGCTGA	СААТААААСА	AAGACAGTGG	GCAAGGAAAC	TGTTCCAACC	GTAGCTAATG	2100
CCTCTTGTC	TAAGGCCACT	CGTCAGTACA	AGAATCGTAA	AGAAACTGGG	AATGGTTCAA	2160
CTTCTTGGAC	TCCTCCAGGT	TGGCATCAGG	TCAAGAATCT	AAAGGGCTCT	TATACCCATG	2220
CAGTCGATAG	AGGTCATTTG	TTAGGCTATG	CCTTAATCGG	TGGTTTGGAT	GGTTTTGATG	2280
CCTCAACAAG	CAATCCTAAA	AACATTGCTG	TTCAGACAGC	CTGGGCAAAT	CAGGCACAAG	2340
CCGAGTATTC	GACTGGTCAA	AACTACTATG	AAAGCAAGGT	GCGTAAAGCC	TTGGACCAAA	2400
ACAAGCGTGT	CCGTTACCGT	GTAACCCTTT	ACTACGCTTC	AAACGAGGAT	TTAGTTCCCT	2460
CAGCTTCACA	GATTGAAGCC	AAGTCTTCGG	ATGGAGAATT	GGAATTCAAT	GTTCTAGTTC	2520
CAATGTTCA	AAAGGGACTT	CAACTGGATT	ACCGAACTGG	AGAAGTAACT	GTAACTCAGT	2580
AAAGATACG	CCTACACTCC	TATGTCACTT	ATGGATGTAG	GAGTTCTTT	TACTAGTTTA	2640
AGCAGGACTA	AGACAGGTAC	TAAGACAAAA	TAGCAACTTC	TAAAACTAAC	TTCCAGTTTT	2700
GGAGAGAGA	TGGAAGTTAC	TTTGAGA				2727

#### (2) INFORMATION FOR SEQ ID NO: 102:

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 5717 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double
   (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 102:

TTTTTTGTAG	ATTTAAGTGG	GGTGCAATTC	СТАААААТА	AAAAACAATT	TTTGAAAATT	60
ATGTTAGCAG	GAATTGCTTC	AAATTCGATT	TTATCACTTA	CAGGTTTACT	TGTTTTATTG	120
TTCACATCGT	ATAAATTGCT	TGGACTCTTA	TTTTTTATCA	TTAACTTAGG	TATGATTTTT	180
ATTAATTCAA	TTCCTTTTT	TCAGTATGAT	AGTGGTATTA	TTTTAAGATA	CTTGAATTCT	240
AACAATAATA	ACTTGAATTT	тсаататата	GTTCAACTTT	TAATAGCATT	TGTTATTATT	300
TATTTTCCTT	TGAGTCAACT	ATTACAGTTT	TTGACACCCA	ATATTATTGT	TCGTAGTATA	360
GGAGGGGTGG	TTGTTTCTAT	ACTGCTTTCT	ATATTATATA	TGATAGGAAG	GACGAAATAT	420
GTTCTACGTA	AATAGTTATG	TTTTTGCTTA	TAAAAAAGAA	GGTATAATGT	ATTTACGTGG	480
TCGGAGTATG	CGGGAAATAG	CTATAGAACC	TCAAATTTCG	CAAGAATTTA	TCAACGATCT	540
ATTTAATAGT	TGTAAGGAAC	TATTAGAGAT	AGAAGAAGTA	TTAGGCAGTA	AACTAACATT	600
TGAACTATAA	ATGAACAAAT	TTTAATTTCG	GATGAGATAG	ATATTGATAG	TAGATATTCT	660
AGAACTAAAG	GTTACTATTC	GTTATTTTAT	AATGAAGAGT	ATAATAAAT	ACAGAATAAA	720
ACAGTATTAG	TATTAGGAGC	AGGAGTCTTA	GGATGTTATA	TATCTCTAAG	TCTAAGTATG	780
TATGGAGTGA	GGAAACTTAT	TGTCGCTGAT	TACGATATAA	TAGAACCATC	АААТТТАААТ	840
AGGCAAATTC	TTTATACAGA	GTCGGATGTT	GGTAAGGAGA	AGATTAATGT	TCTTTCTGAA	900
AAAATACACA	AGTATAATTC	AGATGTTCAG	GTAGTACCTA	ТТТСТАТТАА	AGTTTCTTCA	960
GTAGAAGAAT	TAGAAAAAAT	TGTTGCGGAA	TATGGGAGTA	TAGATTTTAT	CGTTAAAGCA	1020
ATTGATACGC	CCATTGATAT	TATAAAAATT	GTCAATCAAT	TTGCTGTATC	GCATAAGATA	1080
TCCTACATAT	CAGGAGGGTT	TAATGGATGC	TATCTTATTA	TTGATAATAT	АТАТАТСССТ	1140
ACCATCGGTT	CTTGCTTTGG	TTGTCGGAAT	ATAAACAAAG	ATATAAATAA	GTACACTTTA	1200
TCTGATAAGA	CAAAGTGGCC	GACTACACCA	GAGATGCCTG	CTATTTTGGG	AGGGATAATG	1260
ACTAATTTAA	TAATTAAAAT	ATTTCTGGGA	TGTTATAATG	AAATCCTAAT	AGATAACGCT	1320
TACGTTTATA	ATATGAGAAA	TCATGCTCTA	AGTCAAGAAA	AATATGTTCT	GGAAAACGGA	1380
GAATGTCCAA	TTTGTAAAAA	AATAATAAAG	TGAAAGATAA	CAATATTAGA	GCGAAAACAT	1440
TTATTCGTTC	AGTTTGTTTT	TGCTTATTAT	CAGGAGGAGT	AGCTTTTTTA	TCTGCTATTG	1500
GGCAGTTCAC	TGTTATAGAA	ACACAATTAA	TAGTATTGTT	CTTGGGTATT	ATTTTTGCTA	1560
TATATTATGC	TTACTACAAT	AAAAATATTC	AAACATCATT	GGAAAATATA	GTATGGCTTT	1620

			768			
PTTCATCGTT	TGAGATTTTA	TTTTTGCTTG	TTAATTTTAG	AACATTTATT	CAGTTACCAG	1680
rggatatttt	TATTGGTATG	ATAATATTT	TAATGCTGTG	GATATTTATT	ATGTTAGGTA	1740
PAGTGTGTCT	TAGTTATTAT	ATAACTTTAT	TATTTAGCAA	GGAGGCTTAG	TATGTTTAAA	1800
AAAATAGGTA	TAATGAGCAT	TTGCATATAT	ATAATTATTT	TATACTGCTT	GAGAATGTAT	1860
CGTATTATCA	ATAATATTGA	AACAATCTTG	CTAACGGTTA	TATGCTTAAT	GTTATTGTTT	1920
PTTTTAAGAC	GTTTATTTGA	TAAAGATAAG	TAAATAGATG	TTAAGTAAAA	ATGTAGAATA	1980
TAAAGGAGGT	GCAATGAGTA	TGATTGAAGT	TAGCCATTTA	TCAAAAAGTT-	TTGGTGATAA	2040
AATAGCTTTA	AATAATAA	GCTTCACTGT	TAAAGAAGGT	TAGATTTTTG	GATTTTTAGA	2100
ACCATCTGGT	TCTGGAAAGA	CCACAACGAT	TAATATTCTG	ACTGGGCAGT	TCCTTGCCGA	2160
PAAAGGACAA	TCTATTATTT	TGGGACAAAA	АТСТСААААТ	TTAACAAGCG	GTGAATTAAA	2220
GAGAATTGGA	TTGGTTAGCG	ATACAAGTGG	ATTTTATGAG	AAAATGTCTC	TGTATAACAA	2280
PCTT <b>CTT</b> TT	TATAGTAAAT	ТТТАТААТАТ	TAGTAAATCA	CGTGTTGATA	ATTTGTTAAA	2340
GCGAGTAGGA	TTATATGATA	GTCGCAAGAT	GGTAGCAGGA	AAATTATCCA	CTGGAATGAG	2400
GCAACGAATG	CTTTTAGCAC	GAGCTCTTAT	CAACAACCCC	GCTGTACTCT	TTCTGGATGA	2460
ACCGACCTCA	GGTCTAGATC	CCACAACTTC	TCGAACAATT	CATGAGTTAA	TTTTAGAATT	2520
GAAAACAGCA	GGGACAACGA	TTTTTCTAAC	GACTCATGAT	ATGAATGAAG	CAACTCTTTT	2580
ATGTGATTAT	GTTGCCTTAT	TAAATAAAGG	GAAATTAGTT	GAGCAAGGAG	CTCCTTCTGA	2640
ACTCATTCAA	AGATATAATA	AAGATAAAA	GATTAAGGTT	ACAGATTATA	ATGGGAATCA	2700
GATAACTTTT	GATTTTACAT	CACTAGAACA	GGTATCTCAG	ACTGATCTGG	AAAATATTTT	2760
TASTTAAST	TCATGTGAGC	CTACTTTAGA	AGATATTTTT	ATCACATTAA	CAGGAGGAAA	2820
GCTAAATGCT	TAAACGGTTT	CTGGCTTTGG	TATGGTTGCG	TTGTCAAATC	ATCCTTTCCA	2880
ATAAGAGTAT	TTTATTGCAA	GTTTTAGTGC	CTTTTGCTTT	CACATATTTT	ТАТАААТАТС	2940
FTATGGAAAC	ACAGGGGAAG	GTCAACGATC	AACAGGCATT	AGTTCTTTTG	ATGATGTGTT	3000
PACCTTTTTC	TTTTTCTTTG	GCTGTTGGAA	GTCCTATAAC	TATTATCTTG	TCTGAAGAAA	3060
AAGAAAAGTA	CAATTTACAA	ACTCTTCTGT	TGAGTGGTGT	TAAAGGCTCC	GAATACATTT	3120
PATCAACTAT	GTTTCTTCCT	TTTTTGCTAA	CTTTTGTGAT	TATGGGAACT	ACTCCTCTTA	3180
PTTTAGGAGT	TACAATTGTA	CATACTTTTA	ATTATATTAC	AATCGTTCTT	CTAACCTCTT	3240
PATCCATCAT	TTTATTCTAT	TTATTGATAG	GTTTAACCGC	GAAGAGCCAA	GTAGTAGCTC	3300
AGGTTATCAG	TCTTCCTGCT	ATGATTTTAG	TTGCTTTCTT	ACCGATGCTA	TCTGGTTTGG	3360
ATAAGACAGT	TGCGAAGATA	ACAGATTATA	GTTTTATGGG	АСТАТТТАСТ	AAGTTTTTCA	3420

CAAAATGGGA	GGAATTTTCA	TGGAATAAAA	CTCTAATTCC	TAATCTAACA	CTACTTATTT	3480
GGATTGTTCT	TCTATTAACT	TTAATTACGA	TAACTATTAG	GAAAAAGAAA	ATTTCTTAAT	3540
rgagttattt	TAATGATTAT	AAACACAAGT	GGGAAGGAAA	AAATGAACTG	ATCTTTTGA	3600
CAGCAATTCT	ACAGAATAGT	CTTATTGCTA	TATTTTGATT	TGAGTGTACG	AAAAAAGAAA	3660
AATAACAATA	GTGCTCATAC	TAATTGCAGA	AGTTTTGGGT	GATAAGATAA	CTGATAAATT	3720
GCAATAAAAA	ATGCAACATT	TTTAAATCTC	CTCTATAAGT	GCTTCAAAAA	GTGCTTCAAA	3780
ACCTGTCTTG	TAATCCAAGT	ATTTTTGGGG	ACGGTGATTA	ATAAGCTAGC	AAAGCATCAT	3840
PAAGGATTTT	TTCGGTAATT	GTTGCCAAAT	CGGTTTAAGA	AAATACTCAC	GAAGAAGTCC	3900
ATTCGCATTC	TCATTACTTC	CCCTTTGCCA	AGATGAATAG	GCATCCGCAA	AATAAAACAG	3960
<b>AATTCCCATT</b>	TGTTCAATTA	AAGGGTAACA	AGCAAACTCT	TTTTCTCTGT	CCGAAGTGAA	4020
AGTCTTTAAC	TATTCTTTTG	GAAAGAGTCT	TGTGAGGTGT	TCAATAGCAG	TCAACATGGA	4080
TTTAGCTGTT	TTTACTTGAC	AAGTGCTAGT	AGAAATAATA	GAATAGTAAA	AAACCTTTAA	4140
AGCAGTCCAG	AGAGGCAGCT	AAGGTTAGAC	GGTGAAAGGG	TGGAGACTAC	CCATTTTTCG	4200
rggaaccttg	CTGTTGGCAG	GTTCCTTTTT	TCGTGGCTTC	TGTTGGCCAG	ACTCTCTCAC	4260
PAGT <b>AA</b> AGGT	AAAAGGAGAA	ACCTATGCGA	GAACATCGTC	CAATCATTGC	TCTTGATTTT	4320
CTAGTTTTG	AGGCGGTCAA	GGAATTTTTA	GCTCTTTTCC	CAGCAGAAGA	AAGCCTTTAT	4380
TCAAGGTAG	GGATGGAGCT	TTATTACGCA	GCGGGGCCTG	AGATTGTGTC	СТАСТТАААА	4440
GTTTGGGTC	ATAGTGTCTT	TTTGGATCTC	AAACTTCATG	ACATTCCTAA	TACAGTCAAG	4.500
CAGCCATGA	AGATCTTGTC	TCAGCTTGGT	GTCGATATGA	CTAATGTCCA	TGCGGCTGGT	4560
GTGTAGAGA	TGATGAAGGC	GGCGCGTGAA	GGTCTTGGGA	GTCAAGCCAA	ATTGATCGCT	4620
TAACTCAGC	TCACATCAAC	GTCAGAAGCT	CAGATGCAGG	AGTTTCAAAA	TATCCAAACC	4680
GTCTGCAAG	AGTCTGTGAT	TCACTATGCC	AAGAAGACAG	CTGAAGCTGG	CTTGGATGGT	4740
TTGTTTGCT	CGGCTCAGGA	AGTACAAGTC	ATCAAGCAGG	CTACCAATCC	AGATTTTATC	4800
GTCTGACAC	CAGGGATTCG	TCCAGCTGGT	GTTGCAGTTG	GAGATCAAAA	ACGAGTCATG	4860
CACCTGCTG	ATGCCTATCA	AATCGGCAGT	GACTATATCG	TAGTGGGACG	TCCCATTACC	4920
AAGCTGAGG	ATCCTGTTGC	AGCTTATCAT	GCCATCAAGG	ATGAATGGAC	ACAGGACTGG	4980
ATTAAAGAA	CTAGATTAGA	AAAATAAAAG	GAGAATACCA	TGACACTTGC	TAAAGATATC	5040
CTAGCCACC	TCTTGAAAAT	CCAAGCCGTT	TACCTCAAAC	CAGAGGAACC	CTTCACTTGG	5100
CATCTGGTA	TCAAGTCACC	GATTTACACT	GATAATCGTG	TGACACTAGC	CTATCCAGAA	5160

		770			
ACTCGTACCC TAATTG	AAAA TGGTTTTGTG		AAGAAGCCTT	TCCTGAAGTA	5220
GAAGTGATTG CAGGAA	CTGC AACAGCAGGG	ATTCCACACG	GAGCCATTAT	TGCTGATAAG	5280
ATGGACTTGC CTTTTG	CCTA CATCCGTAGT	AAACCAAAAG	ACCACGGAGC	TGGTAATCAA	5340
ATCGAAGGTC GCGTAG	CTCA AGGTCAAAAA	ATGGTAGTGG	TTGAAGACCT	TATTTCAACG	5400
GGTGGTTCAG TTCTTG	AAGC TGTAGCAGCA	GCCAAGCGAG	AAGGAGCAGA	TGTACTTGGA	5460
GTTGTAGCGA TTTTCA	GCTA CCAATTGCCA	AAAGCAGATA	AGAACTTTGC	AGATGCTGGT	5520
GTTAAACTTG TGACGC	TTTC AAACTATAGC	GAGCTTATCC	ATCTAGCCCA	AGAAGAAGGT	5580
TACATCACGC CAGAGG	GCCT TGATCTTCTA	AAACGCTTTA	AAGAAGACCA	AGAAAATTGG	5640
CAAGAAGGTT AGGTCA	GTAA GATAAAGAGA	GACGAGGCTA	CCGAGTCTCT	TTTACCATTT	5700
TATTTAAAAT ATGACA	G				5717
(2) INFORMATION F	OR SEQ ID NO: 1	03:			
(A) LENG (B) TYP (C) STR	CHARACTERISTIC GTH: 5558 base p E: nucleic acid ANDEDNESS: doub OLOGY: linear	pairs			
(xi) SEQUENC	E DESCRIPTION:	SEQ ID NO:	103:		
(xi) SEQUENC				GCATTTTTCA	60
	TGAA ATCTTGCGAC	CTGGATCAAG	CCCTTCATGA		60 120
CCTGGACTTT CTAAAA	TGAA ATCTTGCGAC GTCA CTTTCATGTC	CTGGATCAAG	CCCTTCATGA CTTTTTTAC	AATGGCATTG	
CCTGGACTTT CTAAAA' GAAGAAGAAT TAGCTG	TGAA ATCTTGCGAC GTCA CTTTCATGTC CTAT CTAAGCGCCT	CTGGATCAAG CTTCTATGGA GGTTCGTAAA	CCCTTCATGA CTTTTTTTAC CTTTATTGCA	AATGGCATTG GCTCTTCCTC	120
CCTGGACTTT CTAAAA GAAGAAGAAT TAGCTG CTATCACACC CAATAC	TGAA ATCTTGCGAC GTCA CTTTCATGTC CTAT CTAAGCGCCT TGAA CCAATTGCCC	CTGGATCAAG CTTCTATGGA GGTTCGTAAA GTTTTATACT	CCCTTCATGA CTTTTTTTAC CTTTATTGCA AAGTTCTTTT	AATGGCATTG GCTCTTCCTC CAGAAACCAT	120 180
CCTGGACTTT CTAAAA GAAGAAGAAT TAGCTG CTATCACACC CAATACC TAAATTTCCT AATTGT	TGAA ATCTTGCGAC GTCA CTTTCATGTC CTAT CTAAGCGCCT TGAA CCAATTGCCC TGAA GATTTCAAG	CTGGATCAAG CTTCTATGGA GGTTCGTAAA GTTTTATACT ATGATGATGA	CCCTTCATGA CTTTTTTAC CTTTATTGCA AAGTTCTTTT AATCCCAACT	AATGGCATTG GCTCTTCCTC CAGAAACCAT ATTATCTAAG	120 180 240
CCTGGACTTT CTAAAA' GAAGAAGAAT TAGCTGG CTATCACACC CAATACC TAAAATTTCCT AATTGT TTACTGGGGA AGAAGT	TGAA ATCTTGCGAC GTCA CTTTCATGTC CTAT CTAAGCGCCT TGAA CCAATTGCCC TGAA GATTTCAAG CTAA TATTTGAAAT	CTGGATCAAG CTTCTATGGA GGTTCGTAAA GTTTTATACT ATGATGATGA CCACTTCCTT	CCCTTCATGA CTTTTTTAC CTTTATTGCA AAGTTCTTTT AATCCCAACT TTAGGGTGCA	AATGGCATTG GCTCTTCCTC CAGAAACCAT ATTATCTAAG ATGGTTATAA	120 180 240 300
CCTGGACTTT CTAAAA GAAGAAGAAT TAGCTG CTATCACACC CAATACC TAAATTTCCT AATTGT TTACTGGGGA AGAAGT CCAGTTCTGT AAACTAC	TGAA ATCTTGCGAC GTCA CTTTCATGTC CTAT CTAAGCGCCT TGAA CCAATTGCCC TGAA GATTTTCAAG CTAA TATTTGAAAT ATCA GAATGAAAAA	CTGGATCAAG CTTCTATGGA GGTTCGTAAA GTTTTATACT ATGATGATGA CCACTTCCTT ACTAGCAACC	CCCTTCATGA CTTTTTTAC CTTTATTGCA AAGTTCTTTT AATCCCAACT TTAGGGTGCA CTTCTTTTAC	AATGGCATTG GCTCTTCCTC CAGAAACCAT ATTATCTAAG ATGGTTATAA TGTCTACTGT	120 180 240 300 360
CCTGGACTTT CTAAAA GAAGAAGAAT TAGCTGG CTATCACACC CAATACC TAAATTTCCT AATTGT TTACTGGGGA AGAAGT CCAGTTCTGT AAACTAC ATGAATTTTT GAGAGGG	TGAA ATCTTGCGAC GTCA CTTTCATGTC CTAT CTAAGCGCCT TGAA CCAATTGCCC TGAA GATTTCAAG CTAA TATTTGAAAT ATCA GAATGAAAAA AGCA GCGTCCAACG	CTGGATCAAG CTTCTATGGA GGTTCGTAAA GTTTTATACT ATGATGATGA CCACTTCCTT ACTAGCAACC CAGTCTGCGT	CCCTTCATGA CTTTTTTAC CTTTATTGCA AAGTTCTTTT AATCCCAACT TTAGGGTGCA CTTCTTTAC GGTGATGATT	AATGGCATTG GCTCTTCCTC CAGAAACCAT ATTATCTAAG ATGGTTATAA TGTCTACTATT ATGTTGATTC	120 180 240 300 360 420
CCTGGACTTT CTAAAA GAAGAAGAAT TAGCTG CTATCACACC CAATACC TAAATTTCCT AATTGT TTACTGGGGA AGAAGT CCAGTTCTGT AAACTAC ATGAATTTTT GAGAGG AGCCCTAGCT GGGTGT	TGAA ATCTTGCGAC GTCA CTTTCATGTC CTAT CTAAGCGCCT TGAA CCAATTGCCC TGAA GATTTTCAAG CTAA TATTTGAAAT ATCA GAATGAAAAA AGCA GCGTCCAACG	CTGGATCAAG CTTCTATGGA GGTTCGTAAA GTTTTATACT ATGATGATGA CCACTTCCTT ACTAGCAACC CAGTCTGCGT AGCTGCCCAA	CCCTTCATGA CTTTTTTAC CTTTATTGCA AAGTTCTTTT AATCCCAACT TTAGGGTGCA CTTCTTTTAC GGTGATGATT TCTGCCAAGG	AATGGCATTG GCTCTTCCTC CAGAAACCAT ATTATCTAAG ATGGTTATAA TGTCTACT:T ATGTTGATTC AGTTAAACGA	120 180 240 300 360 420 480
CCTGGACTTT CTAAAA GAAGAAGAAT TAGCTGG CTATCACACC CAATACG TAAATTTCCT AATTGT TTACTGGGGA AGAAGT CCAGTTCTGT AAACTAG ATGAATTTTT GAGAGGG AGCCCTAGCT GGGTGT CAGTCTTGCT GCTGAAG	TGAA ATCTTGCGAC GTCA CTTTCATGTC CTAT CTAAGCGCCT TGAA CCAATTGCCC TGAA GATTTCAAG CTAA TATTTGAAAT ATCA GAATGAAAAA AGCA GCGTCCAACG GAAA GTTCCAAAGT AACG CCAATTTCCC	CTGGATCAAG CTTCTATGGA GGTTCGTAAA GTTTTATACT ATGATGATGA CCACTTCCTT ACTAGCAACC CAGTCTGCGT AGCTGCCCAA ACAACTATCT	CCCTTCATGA CTTTTTTAC CTTTATTGCA AAGTTCTTTT AATCCCAACT TTAGGGTGCA CTTCTTTTAC GGTGATGATT TCTGCCAAGG AAGGAAGTTG	AATGGCATTG GCTCTTCCTC CAGAAACCAT ATTATCTAAG ATGGTTATAA TGTCTACTGT ATGTTGATTC AGTTAAACGA CTGAAGATGA	120 180 240 300 360 420 480 540

TACCTTCCAC CGTGTCATCG ATGGCTTTAT GGTCCAAACT GGAGATCCAA AAGGGGACGG

TACAGGTGGT CAGTCCATCT GGCATGACAA GGATAAGACT AAAGACAAAG GAACTGGTTT

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CAAGAACGAG	ATTACTCCTT	ATTTGTATAA	CATCCGTGGT	GCTCTTGCTA	TGGCTAATAC	,006
TGGTCAACCA	AACACCAATG	GCAGCCAGTT	CTTCATCAAC	CAAAACTCTA	CAGATACCTC	960
TTCTAAACTC	CCTACAAGCA	AGTATCCACA	GAAAATTATT	GAAGCCTACA	AAGAAGGTGG	1020
AAACCCTAGT	CTAGATGGCA	AACACCCAGT	CTTTGGTCAA	GTGATTGACG	GTATGGATGT	1080
TGTGGATAAG	ATTGCTAAGG	CCGAAAAAGA	TGAAAAAGAC	AAGCCAACTA	CTGCTATCAC	1140
AATCGACAGC	ATCGAAGTGG	TGAAAGACTA	CGATTTTAAA	TCTTAAAAAC	СААААААТА	1200
CAGTATCCAC	ATTCGGTACT	GTATTTCTTT	TACTCTCATT	CTTAAGTTAA	ATTATTAAAA	1260
TCCCATATTT	GGTCTATCCA	GCCTTCATAA	AAGTCTGGCT	CGTGGCAGAC	CATAAGGATA	1320
GATCCCCTAT	ATTCTTTGAG	AGCGCGTTTG	AGCTCATCCT	TTGCATCCAC	ATCCAAATGG	1380
TTGGTCGGCT	CGTCCAGCAC	TAAAACGTTG	TTTTCACGAT	TCATCAAGAG	ACAGAAACGA	1440
ACCTTGGCTT	GCTCTCCCCC	TGATAATACT	TGAATCTGGC	TTTCAATATG	TTTGGTTGTC	1500
AAACCACAAC	GGGCAAGGGC	TGCACGGACT	TCTGCTTGAT	TAAGGCCAGG	AAAGGCATTC	1560
CAGACAGCTT	CAAGAGGAGT	TTGGCGATTA	CCGCCTTCTA	CTTCCTGCTC	AAAATAACCA	1620
AGTTCTAAAT	AATCTCCACG	CTCCACTTCC	CCAGCGATTG	GCGAGATAAT	GCCCAAGAGA	1680
CTCTTCAAGA	GAGTTGTTTT	TCCAATACCA	TTAGCACCAA	TAATCGCAAC	CTTTTGATTG	1740
CGTTCGAAGG	TAAGATTTAA	AGGCTTAGTA	AGAGGACGGT	CGTAACCAAT	TTGCAAGTTC	1800
TTGGCTTGGA	AGATAAAGCG	CCCTGGTGTA	CGAGCTGGTT	TGAAATCAAA	GGATGGTTTT	1860
GGTTTCTCAC	TTTGGAGTTC	GATAATATCC	ATCTTATCCA	ATTTCTTTTG	ACGAGACATA	1920
GCCATATTAC	GAGTTGCAAC	ACGGGCTTTA	TTACGAGCCA	CAAAGTCCTT	GAGGTCTGCA	1980
ATCTCTTTCT	GCTGGCGTTC	GTAGGCTGCC	TCTAGCTGAG	ATTTCTTCAT	AGCATAAACT	2040
TCTTGGAACT	GGTAGTAGTC	ACCAGAGTAA	CGCGTCAGCT	GTTGATTTTC	CACATGATAG	2100
ACAATATTAA	TAACGTCATT	GAGGAATGGA	ATATCGTGCG	AAATGAGAAC	AAAGGCATTC	2160
TCATAGTTTT	GGAGATAGCG	CTTGAGCCAA	TCAATATGCT	CAGCATCCAA	GTAGTTGGTC	2220
GGCTCGTCCA	ACAGCAAGAT	ATCAGGCTTT	TCAAGGAGAA	GTTTTGCCAA	AAGCACCTTG	2280
GTTCTTTGCC	CACCTGACAA	AGAAGTTACA	TCCGTATCCA	TGCCAAAGTC	CATAACACCA	2340
AGAGCACGCG	CTACTTCGTC	AATCTTAGCA	TCCAAGGTAT	AGAAATCACG	ACTCTCCAGA	2400
CGGTCTTGAA	GTTCTCCTAC	TTCTTCCATG	AGAGCATCAA	CATCCGCGCC	GTCTTCAGCC	2460
ATTTTCATAT	AGAGGTCATT	GATACGAGCT	TCAGCTTTGA	AAAGCTCATC	AAAAGCCGTA	<sup>-</sup> 2520
CGGAGAACAT	CACGCACCGA	CTGTCTTTCA	GCAAGGACAG	AGTGCTGATC	CAAGTAACCA	2580

			<b>7</b> 72			
GCCGTCACAT	ATTTGGACCA	CTCAACCTTT	CCTTCATCTG	GCAGCATTTT	ACCAGTCACG	2640
АТАСТСАТАА	AGGTTGATTT	TCCTTCACCA	TTGGCACCGA	CCAGGCCGAT	ATGTTCTCCC	2700
TTGAGGAGAC	GGAAGGACAC	ATCTTCAAAA	ATTGCACGGT	CACCAAAACC	GTGACTCAGA	2760
ттттаастт	СТААААТАСТ	CATTTTAATT	CCTTACCTTG	TTTTTATGTA	ATCGTTTATA	2820
AAGGAGCCAA	GCCAGATAGC	CACCCAAAGT	GTTGGTCCAC	AAATCATCAA	TCTCAAAGAC	2880
GCGATTGAAA	TCAAAGAAAA	AGTCCAAGAT	TAATTGCGTA	CACTCGATTC	CAAGACTCAC	2940
AAGAAAACTA	AAAAGAAGGA	CCTTTTTTGT	TTTCCGCAAA	TTTGGAAATA	GATAAAGGAG	3000
TTGGAAAATC	AGAGGAAAAA	ACAAGAAGAC	ATTGAGGATA	TTTTGTAAAA	AAATCCAACA	3060
TAATTGTCCA	ATGTCACTCA	CTTCGCCCAG	TTTCCAGAGA	GAATTGAAAG	GAGTCAAAAG	3120
AAAAACCAGG	CGTCCAAGAT	GCTGAATACC	TGGAGTTCCC	ACTCCCACGG	TAGATTGTTC	3180
TTGAGGAGTA	AAGCAAAAAC	AGACAATGCA	AATGCTATAG	AAAATGACTC	CCCAGACCAA	3240
AATATGATTA	TAAGTCTTCT	TCATCATTAA	GGATTTACCG	CTGCGACTGC	CTTCTGGCGG	3300
TCACGTTTCA	TTGTGTTAGA	GCGCAATTGT	CCACAAGCTG	CGTCAATATC	TGTACCATGC	3360
TCTTGACGAA	CCACACAGTT	GACCCCTTTT	TTCTTAAGCG	TATCATAGAA	AGCCAACACG	3420
CACTCTTTGG	GACTACGGCT	ATATTGGTCA	TGCTCACTAA	CTGGGTTATA	AGGAATCAAG	3480
TTTACATAAG	ACAATTTCTT	GATGTTCTTG	AGCAATTCAG	TCAATTCCAA	GGCTTGTTCT	3540
ACACCGTCGT	TGACTTCATT	AAGCATGATA	TATTCAAAGG	TTACACGACG	GTTTGTTGTC	3600
TCAATGTAGT	ATTCAATAGC	AGCAAAGAGT	TTTTCAATCG	GAAAGGCACG	GTTAATCTTC	3660
ATGATACTTG	AACGAAGTTC	ATTGTTAGGT	GCGTGAAGAG	ACACGGCAAG	ATTGACCTGA	3720
ACCCCTTCAT	CAGCAAAGTC	ACGAATTTTA	TGAGCCAAAC	CTGAGGTTGA	AACCGTGATG	3780
TGACGAGCAC	CGATAGCCAT	TCCTTTATCA	TCATTGATAG	TACGAAAGAA	ATTCAAGACA	3840
TTGTTGTAAT	TATCAAAGGG	CTCACCGATT	CCCATGACAA	CGATATGGCT	GATGCGTTCA	3900
TCCTGACCAC	GCTCATCAAA	GTATTTCTGA	ACCAGCATGA	TTTGCGCTAC	GATTTCACCG	3960
TTATTGAGGT	CACGTTGCTT	СТТААТСААА	CCAGAGGCAC	AGAAGGTACA	ACCGATATTA	4020
CAGCCGACCT	GAGTGGTCAC	ACAGACAGAT	AAACCATAGT	GTTGACGCAT	GAGTACAGTC	4080
TCAATTAACA	TACCGTCGGG	CAATTCAAAG	AGATATTTGA	CTGTACCATC	AGCAGACTCT	4140
TGCACAATAC	GTTGTTTCAA	GGGATTGACC	ACAAACTGGT	CATTGAGCTT	AGCAATCAAA	4200
TCCTTGGAAA	GGTTGGTCAT	TTCTTCAAAT	GACTGCACAC	GTTTACGGTA	GAGCCATTCC	4260
CAGATTTGAT	CTGCACGGAA	TTTCTTTTCT	CCCTGCTCCA	ATACCCATTC	CTGCATGGTT	4320
TGATGTACCA	AACTATGAAT	TGAGGGTTTC	ATTTCTTCTC	CTTATTCTCT	ACTCACTTCT	4380

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GACGAATGAC	AAAATGACGT	TGTCCCTTGT	CGTCTTTCTG	ACGACGTCTA	TTTTTCTTAT	4440
CTGCATTCGA	CTTTCGTTTA	GTTTGAGTCG	GTTTCTTTCC	TTTTCTAGAA	GGTGTTTCTT	4500
CTTCCGTCTT	ACGCATTTTC	TTGTCAAATG	ATGCTCGCTT	AGGGGCTTCA	TTTTCTAAGA	4560
CAAAATAGGC	ACAACCATAA	CTACAATACT	CTAAAAGGTA	GTCTTGTAAA	CGACTGATTT	4620
TTTCAAGTTT	TTCTTCTGTT	CGGTCATCCT	TGTAAAAACC	TCGTAGGCGA	AGCTGTTCGT	4680
TGCTCCAGTC	CCCCACGATA	TAATCAAACT	TGGTTAATAC	TTCTGAAAAA	CGCTGATTAA	4740
AAGTCGTCAC	ATCAAAGGCA	TCCTTGATAT	TTTCAACCAA	GGAAAAAGCT	ATCCCTTCCG	4800
TTTCGACCTT	GTCCCCGTGT	AAATGGAACT	CCGGACCAGG	AAACTTGTTA	TAGTTGTATA	4860
ATTCAGGTGC	AATTTCTTTT	CGCATAGATA	TCCTTTTTTC	ACGATTACTT	AATACTTTAT	4920
TCTACCATAA	TTTCTAGCAG	TTAGCACGTT	TCTCATAAAA	ATGAAAAAG	TCTGACGATT	4980
TTGTCAGACC	AGAATCTTAT	AACCTAAAAA	GAGAAGAACA	ATTCTTCCCT	CCAACTATCA	5040
TTATTTAGCA	GCTGCGTACA	ATTCATCTAC	TTTATTCCAG	TTGATTACTG	AAAAGAAAGC	5100
TTTGATGTAG	TCAGGACGCA	CGTTGCGGTA	TTTCACGTAG	TAAGCATGTT	CCCAAACGTC	5160
CAAGCCCAAG	ATTGGTTTTT	TACCTTCTGA	GATTGGTGTG	TCTTGGTTTG	CTGTTGAAGT	5220
CACTTCAAGT	TTCCCTTCTT	TGTTGACAAC	CAACCATGCC	CAACCTGAAC	CAAAACGAGT	5280
TGTTGCTGCT	GCAGTGAAGG	CTGCTTGGAA	TTCTTCAAAT	GAACCAAATG	TTGCATCGAT	5340
TGCTGCTGCC	AGTTCTGCTG	AAGGAGCTGT	TTTCTCGGGA	GTCATCAATT	CCCAGAAAAG	5400
AGCGTGGTTC	AAGTGTCCGC	CACCATTGTT	GATAAGTGCT	TGACGGATAT	CAGCTGGGAT	5460
AGATTCTACA	TCAGCAAGCA	AGGCTTCAAG	GTCTTCACCG	ATTTCAGGGT	GTTTTTCTAA	5520
AGCTGCATTG	GCATTGTTGA	CATAAGTTTG	ATGGTGTT			5558

#### (2) INFORMATION FOR SEQ ID NO: 104:

## (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 6735 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 104:

GGAATTGTAA ATATCATATT GTTTTTGCAC CCAAATATCG TCGTCAAATC ATTTATGGCA 60 GATACAAAGC TAGTATCGGA AGAATCATAC GTGACTTATG TGAGCGTAAG GGTGTAATAA 120 TCCATGAAGC GAATGCTTGT TCAGACCATA TTCACATGCT TATCAGTATT CCTCCGAAAC 180

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TTAGTGTTTC	GTCCTTTATG	GGCTATTTAA	AGGGCAAGAG	CAGTTTGATG	ATTTTTGATA	240
AGCATGCGAA	TTTAAAATAC	AAATATGGCA	ATCGCAAGTT	TTGGTGTAGA	GGCTATTATG	300
TAGATACGGT	AGGCCGTAAT	CAGAAAGTGA	TAGCTGAATA	TATTCAGAAT	CAATTACAAG	360
AAGACAGAGT	AGCAGACCAG	CTCACGTTAT	TCGAGTCAGT	AGATCCGTTT	ACTGGCGAAA	420
TAAATAAGAG	GAAGTAACTA	AGGTGCTTTA	GCACCTGCTC	GGGAAAGTGG	TGCGCGAGGA	480
AGCTATTTCG	GTGGGCCTTT	GGCCCTGGCC	GGTAGAAGCG	GCTTATAGCC	GCAGAACAAA	540
CCACCAGTTC	ACACTGGTGG	TTTTGATTTA	AAAAACTTGA	ТАСАТАААА	TAAAAGTCTA	600
TATAAAGGAT	GGTAAAATTC	CTGTTGTCCG	ATTTGGACAA	ТАТССТАААТ	AGTTACAATA	660
TATGGTCTAT	ACTTTTTCTT	AGGAGAAAGC	TAGATGTACA	GACGTTTGAG	AGATTTGAGG	720
GAGGATCATG	ATCTGCCCCA	AAAGCAAATA	GCTACAATAC	TTTCGTTTAC	AAATTCAGCT	780
TATGCCAAAA	TTGAACGGGG	TGAGCATGCG	TTGACGGCTG	ATGTATTGGT	TAAACTCTCA	840
GATTTCTATG	ACGTCAGTAC	AGACTATTTA	TTGGGATTAA	CTGATTTTCC	TGATAAAATT	900
CGCTTTAGAA	AATAATCTCC	TCAATTTCAT	AGAGTTTGAA	AATGAGTGAG	ATTTTTTATT	960
TGCCCTTTGA	CAACTGAATA	GCCTAAAATG	GTACTTTCCT	CATTTGTGGA	GCAAATTTGA	1020
ATGGCTCGCC	ATGATAAGAG	CGATTTTAAA	ATCATCAATA	AAATAGAGCG	ATACTTTATA	1080
TGCCATGATA	CAAATGATAT	ACAATGATAC	TTCTGACCGT	TCAGCCTGCC	AACGTAAAAG	1140
AGCAGCAAGT	GAAATTCTTA	TGATGACTTC	ATCAGTCATG	CCACGTTGAA	TGTGTGAGTT	1200
TGTTAGATAA	ACGCAATTAA	TCCTCAAAAG	GTTCCCCGAA	CCTTTTGAGT	TCTACAGACG	1260
CATCACGTGG	AGTGTGTAAG	CTTGTTGCTA	AAAGCGTAAA	AACCTTGGAA	CGAAAGGAAT	1320
AATAGACTTT	CTGCGAAACA	ТААТАТААА	ACAATAAAAC	TATGAATGAT	GAAGCAAGTA	1380
AACAATTGAG	CGATAGCCGT	TTCAAGATCC	TTGTAGGTGT	TCAGCGCACG	ACTTTTGAAG	1440
AGATGTTAGC	TGTGTTAAAA	ACAGCTTATC	AACGTAAACG	CGCAAAAGGT	GGACGAAAAA	1500
GCAAATTAAG	CCTAGACGAT	CTCCTTATGG	TAACTATTCA	ATACATGCGA	GAATAGAGCA	1560
CTTATGAACA	AATTGCGGCT	GATTTTGGCA	TTCACGAAAG	CAACTTAATC	CGTCGGAGTC	1620
AATGGGTTGA	AGCAACTCTT	ATTCAAAATG	GTTTTACGAT	TTCAAATTCT	GCCTTAATTC	1680
TGTAAAAACA	GTAAAATTCG	AAGGATTGTA	AGGTAAGAGT	TTTTTTCTTT	CTGAAAAAAT	1740
GGTATAATAG	CAATCAAAAC	TAGAAAATAA	AACGGAATTT	GGAACAGATT	TGTCTGTATC	1800
CTAGTAGAGT	GGTGATACTA	TGAAGATTAG	TAAGAGGCAC	TTATTAAATT	ATTCCATCTT	1860
GATTCCCTAC	TTGCTTTTAT	CTATTTTGGG	CTTGATTGTG	GTCTATTCGA	CCACCAGTGC	1920
TATTTTAATT	GAAGAAGGCA	AGAGCGCCTT	GCAGTTGGTT	CGAAACCAAG	GAATCTTTTG	1980

GATTGTTAGT	TTGATACTGA	TTGCCTTAAT	TTATAAATTG	AGACTAGATT	TTTTGAGAAA	2040
TGAGCGACTA	ATCATTTTAG	TTATATTAAT	AGAAATGCTT	TTATTGTTCT	TGGCTCGTTT	2100
TATTGGTATT	TCCGTAAACG	GGGCATACGG	TTGGATTTCG	GTTGCAGGAA	TAACTATTCA	2160
GCCAGCTGAG	TACTTAAAAA	TCATTATTAT	TTGGTATTTA	GCTCACCGAT	TCTCCAAACA	2220
GCAAGAAGAA	ATAGCTACTT	ATGATTTTCA	AGTTTTGACT	CAAAATCAAT	GGCTTCCCCG	2280
TGCTTTTAAT	GATTGGCGAT	TCGTTCTCCT	AGTTCTGATT	GGAAGTTTGG	GAATTTTCCC	2340
TGATTTAGGA	AATGCGACTA	TTTTAGTCTT	GGTTTCCTTG	ATTATGTATA	CAGTTAGTGG	2400
AATCGCTTAT	CGCTGGTTTT	CAACCATTCT	CCCCCTCCTA	TCTGCCGCTT	CTGTCTTTGT	2460
CTTGACCACT	ATCAGCCTAA	TCGGTGTTGA	GACCTTTTCA	AAAATTCCAG	TATTCGGCTA	2520
TGTAGCCAAG	CGCTTTAGTG	CCTTTTTTAA	TCCTTTTGCC	GATCGTGCTG	ATGCAGGTCA	2580
CCAGTTAGCT	AATTCTTATT	TTGCCATGGT	CAATGGCGGT	TGGTTTGGTC	TAGGTCTTGG	2640
AAACTCGATT	GAAAAACGAG	GTTATTTGCC	AGAAGCTCAT	ACAGACTTTG	TCTTTTCTAT	2700
CGTGATTGAA	GAATTTGGCT	TTGTTGGTGC	CAGTCTTATT	TTAGCTCTCT	TGTTTTTCAT	2760
GATTTTGCGG	ATTATCTTGG	TCGGTATCCG	AGCGGAGAAT	CCTTTCAATG	CCATGGTTGC	2820
ACTCGGTGTC	GGAGGGATGA	TGTTGGTTCA	GGTATTTGTC	AATATCGGAG	GGATTTCGGG	2880
CTTGATTCCA	TCTACAGGAG	TGACTTTCCC	CTTCTTATCC	CAGGGTGGAA	ATAGTCTTCT	2940
AGTCTTATCA	GTGGCAGTAG	CCTTTGTCTT	AAATATTGAT	GCCAGTGAAA	AACGCGCTAA	3000
ATTGTACCGA	GAATTGGAAA	ATCAACCAAT	GAACCTTCTG	TTGAAGTAGG	ATAAAGAAAG	3060
GATAGTTTAT	GTCTCTTCAA	Aaattagaaa	ATTATAGTAA	TAAAAGTGTT	GTGCAAGAAG	3120
AAGTCTTGAT	TCTAACAGAA	TTACTGGAAG	ATATTACTAA	AAATATGCTT	GCCCCAGAGA	3180
CCTTTGAAAA	AATAATACAG	TTGAAAGAAT	TATCAACGCA	GGAAGATTAT	CAAGGTCTAA	3240
ACCGTCTAGT	GACTAGCTTA	TCAAATGATG	AAATGGTCTA	TATTTCACGC	TATTTCTCTA	3300
TCTTGCCTCT	TTTGATTAAT	ATTTCAGAGG	ATGTGGATTT	AGCTTATGAA	ATCAATCATC	3360
AAAATAATAT	TGATCAGGAC	TATTTAGGTA	AATTATCTAC	AACGATTAAA	TTGGTAGCAG	3420
AAAAGGAAAA	TGCCGTTGAG	ATCCTAGAAC	ACTTGAATGT	TGTCCCTGTT	TTGACAGCCC	3480
ATCCAACACA	AGTGCAACGC	AAAAGTATGT	TGGATTTAAC	AAATCATATT	CATAGTCTTT	- 3540
TGCGTAAATA	CCGTGATGTT	AAGTTGGGGT	TGATCAATAA	AGATAAATGG	TACAATGATT	3600
TGCGTCGTTA	CATCGAAATT	ATCATGCAGA	CAGACATGAT	TCGTGAGAAA	AAATTAAAAG	3660
TGACTAACGA	AATCACGAAT	GCTATGGAAT	ATTATAACAG	CTCCTTTTTG	AAAGCTGTAC	3720

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CTCATTTGAC	GACGGAGTAT	AAGCGCTTAG	CGCAAGCGCA	TGGTCTGAAT	TTAAAACAGG	3780
CTAAACCAAT	CACCATGGGT	ATGTGGATAG	GTGGTGACCG	TGATGGAAAT	CCATTTGTTA	3840
CAGCAAAGAC	CTTGAAGCAG	TCTGCACTCA	CTCAGTGTGA	AGTCATCATG	AACTACTATG	3900
ATAAAAAGAT	TTACCAACTT	TATCGTGAAT	TTTCTCTTTC	AACTAGCATT	GTCAACGTCA	3960
GCAAGCAAGT	CAGAGAAATG	GCTCGTCAAT	CCAAGGATAA	CTCGATTTAC	CGCGAAAAAG	4020
AGCTTTACCG	TCGTGCCTTG	TTTGATATTC	AATCAAAAAT	TCAGGCAACT	AAAACCTATC	4080
TGATTGAGGA	TGAAGAAGTT	GGGACTCGTT	ATGAAACCGC	CAATGATTTC	TACAAGGATT	4140
TGATTGCCAT	TCGAGATTCT	CTACTAGAAA	ATAAGGGCGA	GTCCTTGATT	TCAGGTGATT	4200
TTGTGGAATT	ATTGCAGGCA	GTAGAGATAT	TTGGTTTTTA	CTTAGCATCA	ATTGATATGC	4260
GACAAGACTC	TAGCGTCTAT	GAAGCCTGTG	TGGCAGAACT	CTTGAAATCA	GCAGGAATTC	4320
ATTCTCGTTA	TAGCGAGTTG	AGCGAAGAAG	AAAAGTGTGA	CCTTCTCTTG	AAAGAATTAG	4380
AAGAAGATCC	CCGAATTCTT	TCTGCGACTC	ACGCAGAAAA	ATCAGAATTA	TTAGCAAAAG	4440
AATTAGCTAT	TTTTAAGACG	GCTCGTGTTT	TGAAAGATAA	GTTGGGAGAT	GATGTCATCC	4500
GTCAGACCAT	CATTTCACAT	GCAACCAGCC	TTTCTGATAT	GCTAGAATTA	GCTATTCTGT	4560
TAAAAGAAGT	AGGACTGGTG	GATACGGAAA	GGGCGCGTGT	TCAGATTGTT	CCCCTTTTTG	4620
AAACAATTGA	AGACTTGGAT	CATTCAGAGG	AAACAATGAG	AAAATATCTT	TCTCTTAGCC	4680
TTGCCAAAAA	ATGGATTGAC	TCACGAAATA	ACTACCAAGA	AATCATGCTT	GGCTACTCTG	4740
ACAGTAATAA	AGATGGCGGT	TACTTGTCAT	CATGTTGGAC	CCTCTACAAG	GCTCAACAAC	4800
AATTGACTGC	TATTGGAGAT	GAATTTGGCG	TTAAGGTTAC	CTTCTTCCAT	GGTCGTGGTG	4860
GTACTGTCGG	TCGTGGTGGT	GGGCCAACCT	ATGAAGCCAT	TACATCTCAA	CCGCTCAAGT	4920
CTATCAAGGA	TCGTATCCGC	TTGACGGAGC	AGGGTGAAGT	AATTGGGAAT	AAATACGGTA	4980
ACAAAGACGC	CGCTTACTAT	AACCTTGAAA	TGCTAGTATC	GGCAGCTATT	AACCGTATGA	5040
TTACTCAGAA	GAAGAGCGAT	ACCAATACCC	CAAATCGTTA	TGAAACCATT	ATGGATCAAG	5100
TAGTGGACCG	TAGTTACGAT	ATCTACCGTG	ATTTGGTCTT	TGGTAATGAG	CATTTCTATG	5160
ATTATTTCTT	CGAGTCAAGT	CCAATCAAGG	CTATTTCAAG	TTTTAATATT	GGTTCTCGTC	5220
CAGCCGCTCG	TAAGACTATT	ACTGAAATCG	GTGGTTTGCG	TGCCATCCCT	TGGGTATTCT	5280
CATGGTCACA	GAGTCGTGTT	ATGTTCCCTG	GATGGTACGG	GGTTGGTTCA	AGCTTCAAGG	5340
AATTTATCAA	ТАААААТССА	GAGAATATTG	CTATCTTACG	AGATATGTAC	CAAAATTGGC	5400
CTTTCTTCCA	ATCGCTTCTT	TCAAATGTTG	ATATGGTTTT	GTCAAAATCA	AATATGAATA	5460
TTGCTTTTGA	ATATGCTAAA	CTTTGTGAAG	ACGAGCAAGT	TAAGGCCATC	TATGAGACTA	5520

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<b>TTTTAAA</b> TGA	ATGGCAAGTT	ACTAAGAACG	TTATCTTGGC	TATTGAAGGA	CATGACGAAC	5580
TCTTAGCTGA	CAATCCATAT	CTAAAAGCTA	GTCTGGATTA	CCGTATGCCT	TACTTTAATA	5640
TTCTCAACTA	TATTCAGTTG	GAGTTGATTA	AACGCCAACG	TCGTGGAGAA	TTGTCCAGTG	5700
ATCAAGAACG	ATTGATTCAT	ATCACCATCA	ACGGAATTGC	GACAGGATTG	CGTAATTCAG	5760
GTTGATAATT	TTCAAGAGTG	aatgctäaaa	GTGAATATCA	AAAAAATTCT	AATAGACTAT	5820
TGACAAGTAG	TTTAAAAATG	ATATAATTTA	ACCATTCAGA	AAAGTAATCA	TACAAACTTT	5880
TTAGAGAGTC	TGTGGTAGCT	GAAAACAGAT	AAGTGGCAAT	GATGAAAATT	GGGCTGAATG	5940
CTATTTAGAA	TTTGAAATTA	TAAAAATTCG	GTAAGCACAC	CTTACAGTGC	ATCTCGTTAT	6000
TGCGAGACTG	AGCGATAGGG	AAATTCCCTA	TAATTGAGGT	GGTACCGCGC	ATCGACGTCC	6060
TCACACAAGT	TTTTTGTGTG	AGGATTTTTT	TGATGGAGGT	TAGTATGGAA	AGAAAACGAT	6120
GGCGTCGCTT	GTTTAGATAA	GTGAAATATG	TTAAAGGAAA	TAAAAAGGAG	AAACAGAATG	6180
AAAAATAAAC	GTTTAATTGG	AATTATTGCT	GCATTAGCAG	TCTTAGTAGC	AGGAAGCTTG	6240
ATTTATTCTT	CAATGAATAA	ATCAGAAGCT	CAGAATAATA	AGGATGAGAA	GAAAATAACC	6300
aagattggtg	TGCTTCAATT	TGTGAGCCAT	CCATCCCTTG	ATTTGATTTA	TAAAGGGATC	6360
CAAGATGGAC	TTGCAGAAGA	AGGATATAAA	GATGATCAAG	TTAAAATTGA	TTTTATGAAC	6420
TCAGAAGGTG	ACCAAAGTAA	GGTTGCGACA	ATGAGTAAAC	AATTGGTTGC	AAATGGGAAT	6480
GACCTTGTGG	TTGGTATCGC	AACACCAGCA	GCCCAAGGGT	TGGCTAGTGC	AACAAAAGAC	6540
CTACCGGTTA	TCATGGCCGC	TATTACAGAC	CCAATTGGTG	CTAACTTGGT	TAAAGATTTG	6600
AAAAAACCAG	GTGGCAACGT	TACAGGGGTA	TCTGACCACA	ATCCAGCTCA	ACAACAAGTT	6660
GAACTCATCA	AGGCTCTGAC	ACCGAATGTG	AAAACAATCG	GAGCTCTTTA	CTCAAGTAGC	6720
GAAGACAATT	CAAAA					6735

#### (2) INFORMATION FOR SEQ ID NO: 105:

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 6516 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double
   (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 105:

CTAGAGGATC	CCAGCAGGTA	AATTGGCTTC	AGCTGGCAAA	AAAGTTGCCC	TCGTTGAACG	60
CAGCAAGGCT	ATGTACGGTG	GAACTTGTAT	CAACATTGGT	TGTATCCCAA	CTAAAACCTT	120

			778			
GCTAGTTGCT	GCTGAAAAGG	ACTTGTCTTT	TGAAGAAGTC	ATTGCTACTA	AAAACACGAT	180
CACTGGTCGC	CTCAACGGTA	AAAACTATGC	GACTGTTGCT	GGTACAGGCG	TAGATATCTT	240
TGATGCGGAA	GCTCACTTCC	TTTCAAATAA	AGTCATCGAA	ATCCAAGCTG	GTGATGAAAA	300
GAAAGAACTG	ACTGCTGAAA	CAATCGTCAT	CAACACTGGT	GCTGTTTCAA	ACGTCTTGCC	360
AATCCCTGGA	CTTGCTACAA	GCAAAAACAT	CTTTGACTCA	ACAGGTATCC	AAAGCTTGGA	420
САААТТАССТ	GAAAAACTTG	GAATCCTTGG	TGGCGGAAAT	ATCGGTCTTG	AATTTGCCGG	480
CCTTTACAAC	AAACTTGGAA	GCAAGGTCAC	AGTCCTAGAT	GCCTTGGATA	CATTCCTACC	540
TCGTGCAGAA	CCTTCCATCG	CAGCTCTTGC	TAAACAATAC	ATGGAAGAAG	ATGGCATTGA	600
ATTGCTTCAA	AATATCCATA	CTACTGAAAT	CAAAAACGAT	GGTGACCAAG	TGCTTGTCGT	660
AACTGAAGAC	GAAACTTACC	GTTTCGACGC	CCTTCTCTAC	GCAACTGGAC	GCAAACCAAA	720
TGTAGAACCA	CTTCAACTTG	AAAATACAGA	TATTGAACTA	ACTGAACGTG	GTGCTATTAA	780
AGTAGACAAA	CACTGTCAAA	CAAACGTTCC	TGGTGTCTTT	GCAGTTGGAG	ATGTCAACGG	840
TGGCCTTCAA	TTTACTTACA	TTTCACTTGA	TGACTTCCGT	GTTGTTTACA	GCTACCTTGC	900
TGGAGATGGC	AGCTATACAC	TTGAAGACCG	TCTCAATGTG	ССАААТАСТА	TGTTCATCAC	960
ACCTGCACTT	TCACAAGTTG	GTTTGACTGA	AAGCCAAGCA	GCTGATTTGA	AACTTCCATA	1020
CGCTGTTAAG	GAAATCCCCG	TTGCAGCAAT	GCCTCGTGGT	CACGTAAATG	GAGACCTTCG	1080
CGGTGCCTTC	AAAGCTGTTG	TCAATACTGA	AACAAAAGAA	ATTCTTGGAG	CAAGCATCTT	1140
CTCAGAAGGT	TCTCAAGAAA	TCATCAACAT	CATCACTGTT	GCTATGGACA	ACAAGATTCC	1200
TTACACTTAC	TTCACAAAAC	AAATCTTCAC	TCACCCAACC	TTGGCTGAGA	ACTTGAATGA	1260
CTTGTTTGCG	ATTTAAGTTG	AGATTTAATC	GTATCGAACA	GCCCTCTTTG	GGCTGTTTTT	1320
ACTTCTGCGG	AATCTCAAAT	CTGTCTTTCT	CCTCTTTTAT	GATATAATAG	AAACATGAAC	1380
талаласта	CTTTGGGCCT	TCTTGCTGGG	CGTTCTTCCC	ACTTCGTTTT	AAGCCGTCTT	1440
GGACGTGGAA	GTACGCTCCC	AGGGAAAGTC	GCCCTTCAAT	TTGATAAAGA	TATTTTACAA	1500
AACCTAGCTA	AGAACTACGA	GATTGTCGTT	GTCACTGGAA	CAAATGGAAA	AACCCTGACA	1560
ACTGCCCTCA	CTGTCGGCAT	TTTAAAAGAG	GTTTATGGTC	AAGTTCTAAC	CAACCCAAGC	1620
GGTGCCAACA	TGATTACAGG	GATTGCAACA	ACCTTCCTAA	CAGCCAAATC	TTCTAAAACT	1680
GGGAAAAATA	TTGCCGTCCT	CGAAATTGAC	GAAGCCAGTC	TATCTCGTAT	CTGTGACTAT	1740
ATCCAGCCTA	GTCTTTTTGT	CATTACTAAT	ATCTTCCGTG	ACCAGATGGA	CCGTTTCGGT	1800
GAAATCTATA	СТАССТАТАА	CATGATATTG	GATGCCATTC	GGAAAGTTCC	AACTGCTACT	1860

TATTTTGGTT	TTGACTTGGA	AAAGGGACCA	GCCCAACTGG	CTCACTACAA	TACCGAAGGG	198
ATTCTCTGTC	CTGACTGCCA	AGGCATCCTC	AAATATGAGC	ATAATACCTA	TGCAAACTTG	204
GGTGCCTATA	TCTGTGAAGG	TTGTGGATGT	AAACGTCCTG	ATCTCGACTA	TCGTTTGACA	210
AAACTGGTTG	AGTTGACCAA	CAATCGCTCT	CGCTTTGTCA	TAGACGGCCA	AGAATACGGT	216
ATCCAAATCG	GCGGGCTCTA	TAATATCTAT	AACGCCCTAG	CTGCTGTGGC	CATCGCCCGT	222
TTCCTAGGTG	CCGATTCGCA	ACTCATCAAA	CAGGGATTTG	ACAAGAGCCG	TGCTGTCTTT	228
GGACGCCAAG	AAACCTTTCA	TATCGGTGAC	AAGGAATGTA	CCCTTGTCTT	GATTAAAAAT	234
CCAGTCGGTG	CAACCCAAGC	TATCGAAATG	ATCAAACTAG	CACCTTATCC	ATTTAGCCTA	240
TCTGTCCTCC	TTAATGCCAA	CTATGCAGAT	GGAATTGACA	CTAGCTGGAT	CTGGGATGCA	246
GACTTTGAAC	AAATCACTGA	CATGGACATT	CCTGAAATCA	ACGCTGGCGG	TGTTCGTCAT	2520
TCTGAAATCG	CTCGTCGCCT	CCGAGTGACT	GGCTATCCAG	CTGAGAAAAT	CACTGAAACG	258
AGTAATCTGG	AGCAAGTTCT	CAAGACCATT	GAGAATCAAG	ACTGCAAGCA	TGCCTATATT	2640
CTGGCAACTT	ATACTGCCAT	GCTGGAATTT	CGTGAACTGC	TGGCTAGTCG	TCAGATTGTT	270
AGAAAGGAGA	TGAACTAATG	GTTTATACTT	CACTTTCCTC	AAAAGATGGC	AATTACCCCT	2760
ATCAGCTCÁA	CATTGCCCAC	CTCTACGGAA	ATCTCATGAA	TACLACGGGG	ACAATGGAAA	2820
CATCCTCATG	CTCAAGTATG	TGGCTGAAAA	ACTGGGAGCC	CATGTGACCG	TTGACATCGT	2880
TTCTCTCCAT	GATGACTTTG	ATGAAAATCA	CTACGACATC	GCCTTTTTCG	GTGGTGGTCA	2940
AGACTTTGAA	CAAAGTATCA	TTGCAGACGA	CCTACCTGCT	AAAAAGAGA	GCATTGACAA	3000
CTACATCCAA	AACGACGGTG	TAGTTCTGGC	TATCTGCGGT	GGTTTCCAAC	TATTGGGTCA	3060
ATATTATGTT	GAAGCTTCAG	GAAAACGTAT	CGAAGGGCTA	GGGGTCATGG	GACACTACAC	3120
GCTCAACCAG	ACCAATAACC	GTTTTATCGG	TGACATCAAG	ATTCACAATG	AAGATTTCGA	3180
<b>IGAAACCTAC</b>	TATGGATTTG	AAAATCACCA	AGGTCGTACC	TTCCTCTCTG	ATGACCAAAA	3240
ACCGCTGGGA	CAGGTTGTCT	ATGGAAATGG	AAACAACGAA	GAAAAGGTCG	GTGAAGGGGT	3300
<b>PCATTATAAG</b>	AATGTCTTTG	GTTCCTACTT	CCACGGGCCT	ATCCTCTCTC	GTAATGCCAA	3360
PCTGGCTTAT	CGCCTAGTTA	CTACTGCCCT	CAAGAAGAAA	TATGGTCAGG	ACATCCAACT	3420
CCCTGCCTAT	GAGGACATTC	TCAGCCAAGA	AATCGCTGAA	GAGTACAGTG	ACGTCAAAAG	3480
CAAGGCTGAC	TTTTCTTAAA	CAAAGGAAAA	TGATATCAAA	GAACTCCGTT	ATCTTGTCGG	3540
AGTTTTTTGT	CTTTTCTTTT	ACCCTTCTCC	CTTGCATTTT	CTCTCATTTT	TTGCCAAAAT	3600
AGAGGGGTAG	AAAGAAGGTA	GCATATGTCT	AAATTACAAC	AAATCCTAAC	ATATCTTGAA	3660

			780			
TCAGAAAAAC	TAGACGTCGC	TGTCGTATCT	GACCCCGTCA	CAATCAATTA	CCTCACTGGT	3720
TTTTACAGTG	ATCCCCATGA	ACGCCAAATG	TTCCTCTTTG	TCCTAGCAGA	TCAGGAACCT	3780
CTCCTCTTTG	TCCCAGCTCT	TGAAGTAGAA	CGTGCAAGTA	GCACCGTTTC	CTTCCCAGTA	3840
GTGGGCTATG	TCGATTCTGA	AAATCCATGG	САААААТСА	AACATGCTCT	TCCACAACTT	3900
GACTTCAAAC	GTGTCGCTGT	TGAGTTTGAC	AATCTCATCT	TGACCAAATA	CCATGGTTTG	3960
AAAACAGTTT	TTGAGACTGC	TGAGTTTGAC	AACCTCACTC	CTCGTATCCA	ACGCATGCGC	4020
CTCATCAAAT	CAGCTGATGA	AGTGCAAAAA	ATGATGGTTG	CAGGTCTTTA	TGCTGACAAG	4080
GCTGTTCATG	TTGGTTTTGA	CAATATTTCT	CTTGATAAGA	CTGAGACAGA	TATCATCGCA	4140
CAAATCGACT	TTGCCATGAA	ACGTGAAGGT	TATGAAATGA	GCTTTGATAC	CATGGTCTTG	4200
ACTGGTGATA	ATGCTGCGAA	TCCACACGGC	ATTCCAGCAG	CTAATAAGGT	TGAAAATGAT	4260
GCTCTTCTCC	TCTTTGACCT	GGGTGTTCTG	GTCAATGGCT	ATGCGTCAGA	TATGACTCGT	4320
ACAGTCGCTG	TCGGCAAACC	AGACCAATTC	AAGAAAGATA	TTTACAACTT	GACTCTTGAA	4380
GCCCAACAAG	CTGCTCTTGA	CTTTATCAAG	CCAGGTGTGA	CTGCTCATGA	AGTGGACCGC	4440
GCTGCCCGTG	AGGTCATCGA	AAAAGCTGGT	TATGGTGAGT	ACTTCAACCA	CCGTCTCGGG	4500
CATGGTATCG	GTATGGATGT	CCATGAATTC	CCATCTATCA	TGGAAGGAAA	'CGACATGGTC	4560
ATCGAAGAAG	GCATGTGCTT	CTCTGTTGAA	CCAGGTATCT	ATATCCCTGG	TAAAGTCGGT	4620
GTTCGTATTG	AAGACTGCGG	TGTTGTTACC	AAGGATGGCT	TCAACCTCTT	TACAAGCACC	4680
AGCAAAGATT	TGCTTTATTT	TGATTAAACT	ATATAGCCCC	TATGCTTTCC	TTTCAAAATA	4740
TCTAGGGGCT	ATTTTATTGT	CATTTTTCTG	CTATTATGCT	AAAGAAATTG	GCTGCAATAA	4800
TCTAACCCTA	AGTGTCTGGA	ATGATAACGA	GGGTGCTCTC	CGCTTTTATC	AAAGACAAGG	4860
GATGAAACCC	CAAGAAACAA	CAATGGAAAT	GATAATTGAT	TAAGAAGTCA	TCTATCAAAA	4920
Gatgttagaa	AAAGTTCAAT	TTCACTAGAA	AATGAGGAAA	ATCTCCCCAC	AATAAAACGC	4980
ATAGTATCAG	GTATTGTGTA	CTGACCCCAA	ACAGTTAGAC	AATTAATTTA	TCCGAAGGAT	5040
TTAGTTCTGT	ACTGCACAGG	ACTAAGTCCT	TTTAGTTTTA	CCTTAATTCG	TTTGTTGTTG	5100
TAGTAATCAA	TATAGTCTAT	AATGACTTGT	TCCAATTGGT	TAAGTGATTT	AAATGTTTTC	5160
TCATAGCCAT	AAAACATTTC	GGATTTTAAA	ATGCCAAAGA	AAGATTCCAT	CATACCGTTG	5220
PCTTGGCTGT	TTCCCTTGCG	TGACATAGAT	GCTTGAATTC	CCTTATTCTC	TAGGAACCGA	5280
TGATAAGAAT	CGTGTTGGTA	TTGCCAGCCT	TGGTCACTAT	GGAGAATCGT	ATTCTCGTAG	5340
rgcttctctt	TGAATGCCTG	TTCCAACATT	GTTTGTACTT	ATTCTAAATT	AGGCGAACAA	5400
Gaaagattaa	AAGCAATAAT	TTCGCTGTTA	AAGCCATCTA	AAACTGGTGA	TAAGTAAAGC	5460

781

TTTTGAGTAC	TTGCTGGAAT	GGCAAATTCA	GTCACATCTG	TGTAGCACTT	TTCCATTGTT	5520
TTAGAGCCTT	CAAATTGGGC	TTGAATGAGA	TTCTCTGCCT	TCTTACCAAC	GTCTCCTTTA	5580
TGAGAAGAAT	ATTTTCGTTT	CTTTCGCATT	TTAGCTTGTA	AATTGAGTAC	TTTCATCAAG	5640
CCTTGAACTC	TTTTATGATT	TACCAGATAA	CCACGATTTC	TTAGTTCTAA	ATGAACCCGG	5700
CGATAAGCAT	AATTTCCCTT	GTGTTCGATA	AAGATGGATT	GAATTTCAGT	TTTAAGCTCT	5760
TGGTCTTTAT	CTGTTTTGTC	TAGCTGTTTC	AAGTGATAGT	AGTAGGTCCA	ACGAGCTAGT	5820
TTAATGGCTT	CTAGAAGAAG	ATCTAACGAA	AACTCAGTCA	TTAATTCTTG	AACAATTTCT	5880
GTCTTTCTTC	TTTCTCTTTT	TCCTCCTTCA	ATCGGAGTTC	TCTTAACTTT	TTTAGGATGG	5940
CATTCTCCGC	TCTCAGGTAC	TCTCCCTCTT	GTTTTCTCAA	CAATAGTATA	CCCGTTTTTC	6000
CTGTATTGTG	CTAGCCAGTT	AAGAAGTATC	GTACGACTTG	GGAGACCGTA	TTCAAGAGAA	6060
ACTCTATCTT	TAGTCCAGCC	TTCATGTCAG	ACTTTATTAA	CCCCAATTAT	TCACCCCAAA	6120
тсталаласс	ATCCAGAATC	CTTGCCTTAG	CTTAGATCCT	GGATGGTTTC	TTTTTTCACC	6180
CAATGGGTGT	TTTTTACTAG	ACAAAAAAGA	GTTTCCCCTT	TATGGTATAA	GTGTAGAAAA	6240
AAACACAAAA	AGAAAGGAAA	CTCACATGAA	CAGTTTACCA	AATCATCACT	TCCAAAACAA	6300
GTCTTTTTAC	CAACTATCTT	TCGATGGAGG	TCATTTAACC	CAGTATGGTG	GTCTTATCTT	6360
TTTTCAGGAA	CTTTTTTCCC	AGTTGAAACT	AAAAGAGCGG	ATTTCTAAGT	ATTTAGTAAC	6420
GAATGAmCAA	CGCCGCTACT	GTCGTTATTC	GGATTCAGAT	ATCCWTGTCC	AGTTCCTCTT	6480
TCAACTGTTA	ACAGGTTATG	GAACGGAATA	TGCTTG			6516

#### (2) INFORMATION FOR SEQ ID NO: 106:

# (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14654 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 106:

TTTTCAACCC	ATATCGTGGC	TCCTGAATAC	TACTTACTGA	CAACTATGCT	ATCAGAGACT	60
TCTCTACTTG	TTTTCTATAT	CATTTTCATC	CATAGAAAAC	AACTCATCCA	CTTGGGACAT	120
ATCTTTAGCT	ATACTGTTCG	ATACTCTCTC	TTTTCACTTT	CCTTTGTAGC	AATTTATTTC	180
CTGATTAATT	TCGTGTATCC	TGTAGATATG	GTCATTAATT	TGCCATTTTT	GATTAATACT	240
GGTTTGATTG	TCTTGCTATC	AGCTATCTCT	TATATTAGTC	TACTTGTCTT	CACAAAAGAT	300

			782			
AGCATTTTCT	ATGAATTITT	AAACCATGTC	CTAGCCTTAA	AAAATAAATT	талалатса	360
PAGGAGTTTA	AAATGAAACA	ACTAACCGTT	GAAGATGCCA	AACAAATTGA	ATTAGAAATT	420
TTGGATTATA	TTGATACTCT	CTGTAAAAAG	CACAATATCA	ACTATATTAT	TAACTACGGT	480
ACTCTGATTG	GGGCGGTTCG	ACATGAGGGC	TTTATCCCTT	GGGACGACGA	TATTGATCTG	540
CCATGCCTA	GAGAAGACTA	CCAACGATTT	ATTAACATTT	TTCAAAAGGA	AAAAAGCAAG	600
TATAAGCTCC	TATCCTTAGA	AACTGATAAG	AACTACTTTA	ACAACTTTAT	CAAGATAACC	660
GACAGTACGA	CTAAAATTAT	TGATACTCGA	AATACAAAAA	CCTATGAGTC	TGGTATCTTT	720
ATCGATATTT	TCCCTATAGA	TCGCTTTGAT	GATCCTAAGG	TCATTGATAC	TTGTTATAAA	780
TGGAAAGCT	TCAAACTGCT	GTCTTTCAGT	АААСАТАААА	ATATTGTCTA	TAAGGATAGC	840
TTTTAAAAG	ATTGGATACG	AACAGCCTTC	TGGTTACTCC	TTCGACCGGT	TTCTCCTCGT	900
PATTTTGCAA	ATAAAATCGA	GAAAGAAATT	САААААТАТА	GTCGTGAAAA	TGGGCAATAT	960
ATGGCTTTTA	TCCCTTCAAA	ATTTAAGGAA	AAGGAAGTCT	TCCCAAGTGG	TACCTTTGAT	1020
<b>LAAACAATCG</b>	ATTTACCCTT	TGAGAATTTA	AGCCTTCCTG	CACCTGAAAA	ATTTGATACT	1080
ATTTTGACAC	AATTTTATGG	AGATTATATG	ACCCTACCAC	CAGAAGAAAA	ACGCTTCTAC	1140
AGTCATGAAT	TTCACGCTTA	TAAATTGGAG	GATTAGGATG	CAATATTTAG	AAAAAAAAGA	1200
attaaagaa	ATTCAACTAG	CCCTGCTGGA	CTATATTGAT	GAGACTTGTA	AGAAACATGA	1260
PATTCCTTAT	TTTCTCAGTT	ATGGAACCAT	GCTTGGAGCC	ATCCGCCACA	AAGGTATGAT	1320
CCTTGGGAT	GATGATATTG	ATATTTCCCT	TTATCGTGAG	GATTATGAGC	GTTTACTGAA	1380
GATTATTGAA	GAAGAAAATC	ACCCTCGCTA	CAAGGTTCTT	TCCTACGATA	CATCTTCTTG	1440
STACTTCCAT	AATTTCGCAT	CGATTTTGGA	CACTTCTACT	GTTATAGAAG	ACCATGTTAA	1500
STACAAGCGT	CATGATACCA	GCCTTTTCAT	CGATGTCTTC	CCAATTGATC	GATTTACAGA	1560
TTGAGCATT	GTCGACAAGA	GCTATAAGTA	TGTGGCTCTT	CGTCAACTAG	CTTATATCAA	1620
AAATCACGA	GCAGTTCACG	GTGATAGCAA	ACTAAAAGAT	TTTCTTAGAT	TATGTAGCTG	1680
STACGCTCTC	CGATTTGTCA	ATCCTCGCTA	CTTTTACAAG	AAAATTGATC	AACTAGTCAA	1740
AATGCTGTA	ACCAACACTC	CTCAATATGA	AGGAGGAGTT	GGGATCGGTA	AGGAAGGGAT	1800
BAAAGAAATC	TTCCCAGTTG	ATACCTTTAA	AGAACTGATT	TTAACTGAGT	TTGAGGGCCG	1860
ATGTTGCCT	GTTCCCAAAA	AATATGACCA	ATTTTTAACC	CAGATGTATG	GCGATTATAT	1920
BACACCACCA	TCAAAAGAAA	TGCAAGAGTG	GTATAGTCAT	AGCATTAAAG	CTTATCGCAA	1980
AACTGATTG	AGGGGGATTA	TACAAACTAC	TAAGATAGAG	GTTATTCAAA	AACATAATTT	2040
AGTAGAAAA	TGAAATACAT	ATTCCCACAA	TAAAACGCAT	CATATCAAGG	TTTTTGAAAA	2100

ACCTTGATAT	GATGCGTTTT	ATAATTTTAA	AGACTTTTTT	CTATAGTAGA	TTGAAATAAG	2160
ATGCGAACAA	ATCAATTAGA	AAATTCAAAT	TAATTTATAG	AAATATTTTA	GTATTCCTGT	2220
GTACTGTTCT	AAATTCAGTC	TGCTATATCT	ТАТТТТСТА	TTTAAATCGC	TTCTGTAACA	2280
AAGCTACGAC	TTTCAAGTAC	CTTAAGCATG	GCATTAGCTG	TATCTAGCGC	TGTGAAGAGG	2340
GGCACCCCGT	GTTCAATGGC	TGAACGACGA	ATTTGCTCAC	CATCTTCGTC	AGCAGTTCGT	2400
TTTGTTCCTA	CTGTGTTAAT	GATAGCTTGA	ATTCTTCCTT	TGCGTACAAA	ACTTGGGATA	2460
TCCTTATCGT	CATCACCAAT	CTTACCAACA	GGTTGGGCTT	GCAAGCCATG	ACTAGCAAAG	2520
AAGGCTGCTG	TCCCTTCTGT	CGCAAGGATT	CCATAACCAA	TGTTTTGGAA	ACGACGAGCC	2580
AAGTTCAAGG	CTTCTTCTTT	GGCATCATCA	GCGATGGTAA	AGACGACATT	ACCAAAAGTT	2640
GGCAAGTGTA	GATAAGAAGC	TTCAAAGGCT	TTATAGAGAG	CTTTTTCCAA	AGTAGCATCA	2700
GAACCCATAA	CTTCACCTGT	TGACTTCATT	TCAGGACCGA	GCAAGCTGTC	TACCTTAGCT	2760
agtttggtaa	AGGAGAAGAC	AGGTGCCTTG	ATATGAACAC	GGGTGCTTTC	AGGGTAAAGT	2820
CCATTTTGGT	AGCCAAGTTC	TGATAAACTT	TGACCAAGAA	TGAGTTTGGT	CGCTACTTGA	2880
GCCATAGGAA	TATTGGTTAC	CTTAGATAGG	AATGGAACAG	TACGGCTGGC	ACGTGGATTG	2940
ACCTCAATAA	CGTAGACTTT	TTCATCCTTG	ATAACAAACT	GGATGTTCAT	CATTCCAAGG	3000
CAGTGAAGAC	CGATTGCTAA	GCGTTTGGTG	TAGTCTGCGA	TGGTCTCCTG	AACCTTTTGC	3060
GACAAGGTTT	GTGGTGGGTA	AACAGCCATT	GAGTCACCTG	AGTGGACACC	AGCACGTTCG	3120
ATATGCTCCA	TGATACCAGG	AATGAGTACA	TTTTTACCAT	CTGAAATGGC	ATCAACTTCG	3180
CACTCTTGCC	CAACGATATA	AGAGTCGACA	AGAACTGGGT	GGTCTGGACT	AGCCTTAACA	3240
GCAGTTCGCA	TGTAAGAACG	AAGGTCTTCT	TCGTTTTCAA	CGATTTCCAT	GGCACGTCCA	3300
CCAAGTACAT	AAGATGGGCG	GACAAGAACT	GGGAAGCCAA	TCTTGCGAGC	TGCAAGAGCT	3360
GCTTCTTCTT	CATTGGTAGC	CGTTTGTCCT	GGTGGCTGTG	GAATATCCAA	TTCTTTGAGA	3420
GCTTGCTCGA	AGAGGTCACG	GTCTTCGGCA	CGATCTAGGT	CAGCAACCTG	TGTACCAAGG	3480
ATGGTCACAC	CTGCTTTTGC	CAATGGCTCC	GCAAGGTTGA	TGGCTGTTTG	ACCACCGAAC	3540
TGAACGATAA	CTCCCTTTGG	TTGTTCCAAG	TCAATGACGT	TCATAACATC	TTCGAATGTC	3600
AATGGCTCAA	AGTAAAGCTT	ATCTGATACA	GAGAAGTCTG	TTGAAACGGT	CTCTGGGTTT	3660
GAGTTCATGA	TGATAGCTTC	ATAACCAGCT	GCCTGGATAG	CCTTAACAGA	GTGAACGGTT	3720
GCGTAGTCAA	ACTCAACCCC	TTGACCGATA	CGGATTGGAC	CTGAACCTAG	GACAAGTACA	3780
GATTCTTTAT	CAGATCTGAT	AGATTCATTT	TCCCAACCAT	AGGTTGAATA	GAAATATGGC	3840

			784			
GTTTCGGAGT	CGAACTCTGC	CGCACAAGTG	TCTACCATCT	TATAAACTGG	AACAATCTTG	390
TTTTCCAAGC	GAAGTTGGCG	AACTTTATCA	TCAGTCGTTC	CCCAGAGTTC	AGCAATCTTA	396
CGGTCTGAAA	AACCATTAAG	TTTGGCTGTT	TTCAAAACTT	CTAAATCTTG	TGGATGAGCA	402
CCCAATTCTT	GCTCAATTTC	AAAGATATGC	AAGAGTTTAT	CAAGATAGAA	GATATCAATT	408
TTTGTAAGCT	CTGCAATTTC	TTCAGGTGTG	TAGCCACGAC	GAATGGCTTC	TGATACGTAG	414
AAGAGACGGT	CATCTTGGGC	TTTGACAACC	TTTTCAATCA	AGGCATCATC	AGAAACTGCT	420
GCAAGTTCAG	GTATTTCATT	GTGGTGCACC	CCAATTTCAA	GGGAGCGGCA	GGCCTTGAGA	4260
AGAGATTCCT	CGATGTTACG	ACCGATTGCC	ATGACTTCTC	CAGTCGCCTT	CATTIGTGTA	4320
CCGAGACGGC	GTTCACCCTT	TTCAAACTTG	TCAAATGGGA	AACGTGGAAT	CTTAGCAACT	4380
ACGTAGTCAA	GGGCTGGTTC	AAACATGGCA	TAGGTTGAAC	CTGTAACTGG	GTTTATAACC	4440
TCATCCAAGG	TCAAACCTAC	TGCAATCTTG	GCAGCCAACT	TAGCAATCGG	ATATCCTGTC	4500
GCTTTAGAAG	CAAGGGCTGA	CGAACGTGAT	ACACGAGGGT	TTACTTCGAT	AACATAATAC	4560
TTGAAGCTGT	TAGGATCAAG	AGCTAGCTGA	ACATTACATC	CACCTTCAAT	CTTGAGGGCA	4620
CGAATAATGC	TCAAGCTCGC	ATCACGAAGC	ATTTGGTTTT	CATAGTCTGA	CATGGTTTGC	4680
GCAGGGGCAA	ATACAATGGA	ATCCCCTGTG	TGAATCCCAA	CTGGGTCAAA	GTTTTCCATG	4740
TTACAAACAA	CCAAGGCATT	GTCAGCTGAG	TCACGCATCA	CTTCGTATTC	AATTTCCTTG	4800
AAACCGGCAA	TCGAACGCTC	AATCAAACAT	TGGGTAACAG	GTGACAATTT	CAAACCATTT	4860
TCAGTGATTT	CACGCAATTC	TTTCTCGTTG	GCACACATAC	CACCACCAGT	ACCACCAAGG	4920
GTAAAGGCTG	GACGAACGAT	GACTGGGTAG	CCAATTGTCG	CTGCAAAGGC	AACTGCTTCT	4980
TCTACTGTGT	TAACAATTTC	AGATTCTGGA	ATGGGTTGTT	CAAGCTCTTC	CATCAATTGT	5040
TTAAAGAGGT	CACGGTCCTC	CGCTTGGTCA	ATGGCAGATA	ATTTGGTACC	CAGAAGTTCA	5100
ACGCCAAGCT	CGTCTAGGAT	ACCATTTTTA	GATAATTCCA	TGGCCATGTT	GAGACCTGTC	5160
rgaccaccga	GTGTTGGTAG	CAAGGCATCT	GGACCTTCCT	TACGAAGAAT	ACGTGTCACA	5220
AACTCAAGTG	TAATCGGTTC	AATGTAAACC	TTGTCAGCAA	TTTCCTTGTC	CGTCATGATG	5280
CTTGCAGGAT	TTGAGTTAAC	CAAAACAACC	TCATAACCTT	CCTCTTTCAA	CGACAAGCAA	5340
SCCTGAGTCC	CAGCGTAGTC	AAACTCAGCA	GCCTGACCAA	TAATAATCGG	ACCAGAACCA	5400
ATCACCATAA	TTTTTTGAAT	ATCAGTACGT	TTAGGCATAT	ATAAGATATT	AAGGGTGTCA	-5460
AGCGGACAAA	GCTAAAATAG	GAGTTATGAC	GAAGAACTGT	CAGTTCTAGG	AATAACTATC	5520
ITTTTAGCAC	CGTCCGTAGC	CCGTATTCAG	TTCAGCAAAT	ACGGAGCACC	CTTCTCCTTT	5580
CTATTCGTCG	CCTCTCAGGG	CGACATTAAA	ТААСАТАСАА	AGGACGAATA	CAAACCCATT	5640

GAATTTTAGG	AAATCAAGGA	AGGATTGACA	ATCCAAGTTG	GTTTCTCTAC	ATTCTGAGCT	5700
TTCCGTCCGT	GTTCAGTTAC	ATAAATTCTC	CGACGAGCTT	TTACTCGTTC	TTAGTTTGAT	5760
TGTTTAAAAA	CTTCCATCAT	CTCGATAAAC	TCGTCAAATA	GGTAGCTAGC	GTCGTGTGGC	5820
CCAGGAGCTG	CATCTGGGTG	GTATTGAACA	GAGAAAGCAG	GTTGGTATCT	GTGGCGCACA	5880
CCTTCCACTG	ACTTGTCATT	GATTTCTTCG	TGGGTAATAA	TCAAGTGCTC	TGGCAAATCC	5940
TCGCGGCTGA	CTGCATAACC	ATGGTTCTGG	CTGGTGAAGT	CTACTCGTCC	TGTTGCGATT	6000
TCACGTACCG	CATGGTTGAA	TCCACGGTGG	CCAAACTTCA	TCTTATAGGT	CTTAGCCCCG	6060
TTTGCCATTG	CAAAGAGTTG	GTGTCCCATA	CAAATACCAA	AGATTGGAAT	TTTTCCTTGT	6120
ACACCGCGAA	TCATGTCGAG	TGCTTGTGGA	ACGTCTTCTG	GGTTACCTGG	ACCATTTGAC	6180
AACATAACTC	CGTCAGGATT	GAGATGGAGA	ATTTCTTCAG	CCGTTGTCGA	ATAAGGAACA	6240
ACTGTCACGT	TACAGTTGCG	TTTAGAAAGT	TCACGTAGGA	TTGAGTGCTT	GAGACCAAAG	6300
TCCACTAGCA	CCACGCTCAA	ACCAACTCCT	GGAGCTGGAT	AAGACGTTTT	AGTAGAAACC	6360
TGTTTGATAT	TGTCTGTCGG	TAAAACTGTT	GCTTGGAGCT	GGTCCGTCAC	ATGGTCCATA	6420
CTGTCCCCAA	CATGGGTCAA	GGTTGCACGC	ATAGTACCAT	GCTTACGGAT	AATCTTGGTA	6480
AGAGCACGCG	TATCAATTCC	TGAAATCCCT	GGAATTTTCT	TGGCTTTCAA	AAATTCATCC	6540
AAGGTCATTT	GGTTGCGCCA	GTTGCTAGCT	CTACGCGCTT	CTTCAAAAAC	AACGACTCCC	6600
TTACAAGTTG	GAATAATGGA	TTCATAATCA	TCACGATTAA	TACCATAATT	TCCTACCAAA	6660
GGATAAGTAA	AGGTCAAGAT	TTGTCCATTA	TAAGACTGGT	CTGTAATGGA	TTCTTGGTAG	6720
CCGGTCATCC	CTGTATTAAA	GACGATTTCG	CCTGTTACAT	CAATATCTGC	TCCGAAGGCC	6780
TTGCCTTCAA	AAACTGTGCC	ATCTTCTAAT	ACTAGAATTC	TTTTTGTCAT	ATTTTCACCT	6840
CTCGTGGACG	CTCACTGGCG	TCTTTTAACG	TCTTGTGTTT	TAGTTGGCGT	TTCTACTCGC	6900
TAGTACGGAT	TCTAAGATTG	CCATTCGAAC	AAAGACACCA	TTGGTCATTT	GTTGGACAAT	6960
CCGTGATTTT	GGTGCTTCAA	CCAAGTGGTC	TGCTATTTCT	ACATCACGAT	TGATTGGAGC	7020
TGGGTGCATG	AGGATTGCTG	TTTCTTTCAA	ACGATCGTAA	CGTTCTTGAG	TCAAGCCATG	7080
TTGGGCATGG	TAGTCTTCTT	TTGAAAATAC	AGCTCCACTA	TCATGGCGTT	CGTGTTGCAC	7140
ACGGAGAAAC	ATCATGACAT	CAACCTGATC	AATGATTTCA	TCAATGGTTA	CAAACTGTCC	7200
ATAGTCTGCA	AACTCTTGAC	TTCTCCATTC	CTCAGGTCCA	GCGAAAAAGA	GTTCAGCTCC	7260
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AATAGCAACT	TTAAGACCCT	CAAAGTGGCC	AAATTCCTCA	TAAATGGTCA	TCAAATCAAG	7380

			786			
CAAGCTCTGG	CTAGGGTGTT	GGCCCGAACC	ATCTCCACCA	TTGATGATGG	AAGTCGTAAT	744
CGTTGGACTA	GCAATCAATT	CTCTATAGTA	GTCGACCTCT	GGATGGCGAA	TCACACAGAC	750
ATCCACTCCT	AAAGCAGACA	GAGTCAAAAT	GGTGTCATAA	AGTGTCTCAC	CCTTATTAAC	756
CGAGCTAGTC	TTCACATCAA	AGTCAAGTCG	TTCCAATCCA	AGTTTAATCT	CTGCGACTTC	762
AAAGGACTTA	TGTGTCCGTG	TAGAATCCTC	AAAGAAGAGA	ТŢGGAAACAA	TCGGATGGTC	768
TTCATAGGGA	AGCTGGGCTC	CATTTTAAA	CTCAATTCCT	CGCTTGATCA	ATTTCATTAC	774
TTGATCGACA	GTGAGGTCTT	CCATGGACAC	CACATGGTTC	AATGCTTGTT	GATTTTCTGA	780
CATGGCTACT	CCTTTAACTT	TCTAAGCTTC	TTCAGTAATC	AGAACTCTGT	CTTGGTCATC	786
AAGTTCTGTC	ATCTCTACGA	TGATTTCTTC	AGAACGACTG	GTTGGGATAT	TTTTTCCAAC	792
GTAATCTGGA	CGGATTGGCA	ATTCTCTATG	TCCACGATCG	ACTAGAACTG	CTAAACTCAC	798
ACGCGCAGGA	CGACCATGAC	CGACAATATT	ATCAATAGCA	GCACGGATGG	TACGACCTGT	804
ATAGAGCACA	TCATCCACCA	AGATAACTTC	GCGGTCTGTC	ACATCGACAG	AAACCAAAGA	810
AGTATCTTCT	CCACTTTTAA	CATCATCACG	GAAAGGTTTA	GTATCCAATT	CCACAACAGG	816
aactgaaaga	TTTTCTAACT	GCTTCAAACG	TTCTTGGATT	CGGTGGGCAA	TAAAGACACC	822
ACGAGTTTTA	ATACCAGCCA	AGACGATCTT	ATTCAAATCT	TTGTTGCGTT	CGATAATCTC	828
ATAAGTAATA	CGCGTAATCG	CTCGTTTGAC	GGTCAATTCG	TCTACAACTT	CTTTTGTTTT	834
CATGACAAAC	CTCCAAAAAG	AAAAGTCTCC	TTAAACAAGG	AGACTTGAAA	TTTATAGCCA	840
AGCGAGCCCT	ACTGCACACA	GTATAGACTT	CACCCTTCTA	CTTTATCGCG	CTCCTTGCCT	846
GCCTCACGGG	ACAGGTTTAA	AGGAATATTT	AGTTATCATT	TACTATAGCA	CAAAGCATGC	8520
тталалтсал	GCAAAAAGTT	TCAATGTAGC	ATCTTACAAA	<b>TŢGCTAAAAT</b>	CATATAATTG	8586
TGGGTACTGG	TCACACTCTG	GATTTTTTGG	ATGGCAAATG	GCTCTTCCAA	ААТАААТСАТ	8640
GGCCTGATGG	GCAGCTAACC	ACTGCTCAGG	CGGCAAGATA	TCCATGACCC	GCTTTTCCAC	8700
CTCAAGTGGC	GTCGCTGATT	TTTTGACAAT	ATCGTGGTGT	TTGCAAATAC	GCTCCACA'I'G	8760
AGTATCCACT	GCAAAGGCTG	GAATTCCAAA	TCCTACACTC	ATGACAACAT	TGGCTGTCTT	8820
GCGACCAACA	CCTGCCAAAC	TCTCCAATTC	TTCACGTGTC	TGAGGGACTT	GACCATCAAA	888
ATCGTCTAGT	AACTGTTGGG	CACATTTTTT	AAGGAATTTA	GCTTTATTCC	GATACAATCC	8940
CAAGCGAGAA	ATATGTGAAG	CAATCTCACT	CTCTGTCGCT	ACAGACATAG	CTTGGGGTGT	9000
TGGAAAGGCA	ACAÄAGAGAC	CTGGTGTGGC	CTTATTTACC	GCTGCATCTG	TCGTCTGGGC	9060
<b>TGATAACAT</b> G	ACCGCAACCA	GGAGTTCAAA	ATGATTGGTA	AAATCAAGAC	TAGGCTTGGC	9120
ATCTGGGAAG	AGGGCAATGA	TTTCTTCTAG	CACCTTTCGT	GCTCGTTTTT	TTGACAAGAC	9180

CATTATTCAT	CTCCGTCAAA	TAGTCCTTGT	AAGCCAGCAA	AAGGACTGTT	TTCTTCTTTC	9240
TTTACTGCTT	TTTGAGCTTG	GTATTCTTCC	TCTGTCATGA	TTTGCCAGTC	ATTTCCTGAG	9300
ATAAATCCTT	GACCAGCTTC	TTCTTCAGCC	GTCAAGACCT	TGATAGGAAT	GTTTAGCAGG	9360
ATATTGTCTG	ATACACTCTC	AGCAAGGTCA	AGCTCCCCAT	TTTCGATGGG	CAAGACCAAG	9420
TCATCATCTA	AAACTTCTTG	ATCTAGCTGG	TTAGTTGCGC	CTTCCATGAA	AACTTCCGTG	9480
ACTGGATAAG	ATTCAACTAA	CTCAACTGGC	TCCATACTGC	GACTCGACGC	AAGAACAATG	9540
GTATAAGATA	GTTGATAATC	TAAGAAATAC	ATACGGTCTT	CATATTGTAC	TTTCCCAACT	9600
GCAAGGATAT	CTTTTACATC	TAAAATTTCT	TGATTACGTG	CACGCAGGTC	ATCAACTAAA	9660
TCTAACGTTT	GTTCAAAGTT	CAAACCTTCA	GACTGCTTAC	GAATTTCTTG	ААТАТТТААТ	9720
TTCATACTTC	CTCCATAAAG	ATTTACTCTC	TTGATTATAC	CATGAAAAGG	CTACAAATCA	9780
GCACACCAAA	CTTTGTAATT	AAAATTCAAA	ATTTTAACAT	ATTTACTATG	ATAGTTTTAT	9840
TTTTTAGTGC	TATACTATAG	GGAAAGAGTA	CATCAGATCA	AGGAGGATGC	TCACATGGAA	9900
GACAAGAAAC	TCATTCAACT	CCTATCCAAG	ТТАААТАААА	GCTACCAAAA	CTGTAAACAG	9960
GGTACGGCAG	ATGATATTCG	ACTACAAGAG	CTGCTAAACA	CTACTATGCA	AGAGCTCAAA	10020
AAAACGGAAC	AGTTGAACAA	CAGTATCTTA	ATTGATCTTG	AGAAATTTTA	CCAACCTACC	10080
AGTCTTCTGA	TTGGACTGGG	TAGCCTAAAA	CTAAACGATC	AAGCACGCAC	TGCTTGGCGA	10140
AACTATGATA	AATTCCATTA	CGATCATGTC	AAACACGTAC	TAAGTCTCTA	TGGACCTGTT	10200
TTTGAATTTT	AGAGCATAGA	ATTTCCAGTT	TTCTGTTGAC	AAAATTTCCT	TAAAGGTATA	10260
ATATAAAGAT	ACTAATACTC	GGAGGTAAGG	GAGACATGAA	CAACTAAGTC	ТАТСАААТАА	10320
AGAACCTTTA	TTTAGTAGAT	CTTGTTTTTG	TCTCTTTTTG	TGTGCTCTTT	TATGCTCTTT	10380
TTCTGGCATG	TTAATAGAGT	TTTTTTGACA	TAGACTTTGG	GCTCTACTAG	GTAAAGTAGA	10440
GCTTTTTGTT	ATGCACTATG	AACATTCTAG	AAAGGGAAAT	CATATGATAA	AAATCAATCA	10500
TCTAACCATC	ACACAAAACA	AAGATTTACG	AGATCTTGTA	TCTGACCTAA	CCATGACCAT	10560
CCAAGACGGG	GAAAAGGTTG	CTATTATTGG	TGAAGAAGGA	AATGGCAAAT	CAACCTTACT	10620
TAAAATTTTA	ATGGGGGAAG	CTTTGTCTGA	TTTCACTATC	AAGGGAAACA	TCCAATCTGA	10680
CTATCAGTCA	CTGGCCTACA	TTCCTCAAAA	AGTCCCTGAG	GACCTAAAAA	AGAAAACTTT	10740
ACACGACTAC	TTCTTTTTAG	ATTCTATTGA	TTTAGACTAC	AGTATCCTCT	ATCGTTTGGC	10800
GGAGGAATTG	CATTTTGATA	GCAATCGTTT	CGCAAGTGAC	CAAGAGATTG	GCAATCTATC	10860
AGGGGGCGAA	GCTTTGAAAA	TTCAGCTTAT	CCATGAGTTA	GCCAAACCCT	TTGAGATTCT	10920

			788			
ATTTTTAGAT	GAACCTTCAA	ATGACCTAGA	CCTTGAGACA	GTTGATTGGC	TAAAAGGCCA	10980
GATTCAAAAG	ACCAGGCAAA	CCGTTATTTT	CATTTCCCAT	GATGAAGACT	TTCTTTCTGA	11040
AACGGCAGAC	ACTATTGTTC	ACTTGCGACT	GGTCAAACAC	CGTAAAGAAG	CGGAAACGCT	11100
AGTAGAGCAT	TTAGACTATG	ATAGCTATAG	TGAGCAGAGA	AAGGCTAATT	TTGCCAAACA	11160
AAGTCAGCAA	GCTGCTAACA	ACCAAAGAGC	CTACGATAAA	ACCATGGAAA	AACATCGGAG	11220
AGTTAAGCAA	AATGTAGAAA	CTGCGCTTCG	AGCTACCAAA	GATAGTACTG	CCGGTCGCCT	11280
ATTGGCTAAA	AAGATGAAAA	CTGTCCTCTC	ACAAGAAAAA	CGCTACGAAA	AGGCAGCTCA	11340
GTCCATGACT	CAAAAGCCAC	TTGAAGAGGA	ACAAATCCAA	CTTTTCTTTT	CAGACATCCA	11400
ACCATTACCA	GCTTCTAAAG	TCTTAGTCCA	ACTGGAAAAA	GAAAATTTGT	CCATTGACGA	11460
CCGAGTTTTG	GTTCAAAAAC	TACAACTAAC	TGTCCGTGGC	CAAGAAAAA	TCGGTATTAT	11520
CGGGCCAAAT	GGTGTTGGGA	AATCAACTCT	GTTAGCCAAG	TTACAGAGAC	TTCTGAATGA	11580
TAAAAGAGAG	ATTTCACTTG	GTTTTATGCC	ACAAGATTAC	CACAAAAAAC	TGCAATTGGA	11640
TTTATCCCCA	ATAGCCTATC	TCAGTAAAAC	TGGGGAAAAA	GAGGAACTAC	AGAAAATCCA	11700
ATCTCACCTA	GCTAGTCTCA	ATTTCAGTTA	TCCAGAAATG	CAGCATCAAA	TTCGCTCCTT	11760
ATCTGGCGGA	CAACAGGGAA	AACTCCTGCT	TTTGGATTTA	GTCCTGCGCA	AACCAAACTT	.11820
TCTCCTGCTG	GATGAACCCA	CACGAAACTT	TTCTCCCACT	TCTCAACCCC	AAATCAGAAA	11880
ACTCTTTGCT	ACCTATCCAG	GCGGTCTCAT	CACTGTTTCG	CATGACCGTC	GTTTCTTAAA	11940
AGAAGTCTGC	TCGATCATCT	ATCGCATGAC	AGAACACGGT	TTGAAGCTAG	TTAATTTAGA	12000
AGATTTATAA	ATTTGCAACA	TAGCAAAAAT	CCAGAGACGA	CCTCTGGATT	CTTTTACATC	12060
TGTTTTAAAC	GTTCAATCCG	TTCTGAGATA	GGTGGGTGGG	TATAAAAGAG	TTTTTGGAAC	12120
CCCCCACCTT	TCTTAGGATC	ATTGATATAA	AGGGCACTGC	TAGCATCATC	GACGTGGCGA	12180
CTCATAGGTT	TGCTATTGTC	CAACTTATCT	AGGGCATTAA	TCATTCCCTG	GGGATTGCGA	12240
GTCAGCTCGA	CACTAGATGC	ATCTGCCAGA	AATTCCCTCT	GACGAGAAAT	AGCGAGCTGA	12300
ACCAAGGTTG	CAGCGAGAGG	TGCCAGTACA	ATAGCTAGTA	GGGAAACCAC	TAGCATAATG	12360
ATTTCAAGAC	CATTTCCATC	TCGGTCATCA	TCACTTCGTC	TGCGACCTGC	TCCACCCCAC	12420
CACATCATAC	GACCTGCCAT	ACTAGAAAGC	ATGGTGATAG	CACTAGCAAG	GGCAACTGCA	12480
ATAGTCGAAA	TACGGATATC	ATAATTACGA	ATATGACTGA	CTTCATGTCC	CATAACAGCT	12540
TCTAGTTCTT	CACGATTCAT	GATAGCTAGT	AGACCTGAAG	TCGCAGCAAC	AGCCGCATTT	12600
TGAGGATTAG	AACCTGTCGC	AAAGGCATTT	AAGGCTGGAT	CATCAATGAT	GAAAACACGG	12660
GGCATAGGAA	TCTGAGCGAC	CAGAGCCATA	TCTTCCACTA	CATGGTAGAG	GTCTGGTGCC	12720

GTTTGCTCAT	CCACCTCACG	CGCTCCATTC	ATGGACATGA	CAATCTCTGT	CGATTGAAAA	12780
ATCATAGACA	AAGCGTAGAT	AAAGCCGATA	ATCAGTGCAA	TAACCAAACC	ACCAAGTCCA	12840
GATCTTATAA	AGAGATAACC	AACCGCATAA	CCAACAAGAG	CTAAGAGTAG	GAAAAATACC	12900
AGCAACAAAA	TCCAGGTTTT	TCGTTTATTG	CTTGCAATTT	GATCAAACAA	CATCTTAGTC	12960
ACCTAAACCG	СТААААТСАА	CTTTAGGAAC	CGACTTTTCC	TCTTCAGGTG	TTTGAAGGAA	13020
ATCTGCCGCT	тталатссаа	ACATTCCAGC	GATAATATTG	CTCGGGAAAG	TTTCTAATTT	13080
TACATTGTAG	TTGCTGACAA	CACTGTTATA	GAGTTGACGA	GAGTAAGAAA	TTTTATTTC	13140
TGTGTTTGTC	AACTCCTCTT	GCAATTTAAC	AAAGTTAGCA	CTAGCTTTCA	AATCTGGATA	13200
GCTTTCTGCA	ACTGCAAAAA	TACCTGAAAC	CTGACGAGTG	AGGGCATCAC	TGGCTTTCAT	13260
AGCTTCTGCT	GGTGAAGTCG	CTGCCGCCAC	TTGGTTACGT	AGTTCTGCCA	CCTTTTCAAG	13320
GGTAGAACCT	TCATATTTGG	CATAACCTTT	TACAGTCTCA	ATCAAGTTTG	GCAAGAGGTC	13380
ATTGCGACGT	TTCAACTGAA	CATCAATCTG	ACTCCAAGCC	TCCTTGGTTT	GCATACGATT	13440
TTTAACCAAA	CCGTTATAGC	TAACAATCAC	AAAAATAACA	ATAAGAGCGA	TAACTCCAAG	13500
AATAATCCAA	GTCATAATAT	AAGTCCTTTC	TGCTTTTAGA	TTAGTACCAG	TATATCAAAT	13560
TTTCTATGAT	TGTGGTAAAA	TAAGATGATA	CTAAAGAAGG	AAATAACTAT	GAAACCAAAA	13620
ACATTTTACA	ACTTGCTTGC	CGAGCAGAAT	CTTCCACTTT	CGGACCAGCA	AAAAGAACAA	13680
TTTGAACGTT	ATTTTGAGCT	CTTGGTCGAG	TGGAATGAGA	AGATTAATTT	GACGGCGATT	. 13740
ACGGACAAGG	AAGAAGTTTA	TCTCAAACAT	TTTTACGATT	CGATTGCACC	CATTCTTCAA	13800
GGTTTGATTC	CCAATGAAAC	TATCAAACTT	CTTGATATCG	GGGCTGGGGC	AGGATTTCCT	13860
AGTCTACCAA	TGAAAATTCT	CTATCCGGAG	TTAGATGTGA	CCATTATTGA	TTCACTCAAT	13920
AAGCGCATCA	ACTTCCTACA	ACTCTTGGCT	CAAGAACTGG	ATTTGAACGG	AGTTCATTTC	13980
TACCACGGAC	GTGCCGAAGA	TTTTGCCCAA	GACAAGAACT	TCCGTGCTCA	ATATGATTTT	14040
GTAACAGCTC	GTGCGGTTGC	CCGTATGCAG	GTCCTATCTG	AATTGACTAT	TCCCTACCTT	14100
AAGGTTGGTG	GCAAACTATT	AGCACTCAAG	GCTAGCAATG	CGCCTGAGGA	ATTATTAGAA	14160
GCTAAGAATG	CCCTCAATCT	CCTTTTTAGT	AAGGTCGAAG	ACAATCTCAG	TACGCCCTAC	14220
CGAATAGAGA	TCCGCGCTAT	ATCACAGTGG	TAGAAAAGAA	AAAAGAAACA	ССАААТАААТ	14280
ATCCACGTAA	GGCTGGTATG	CCAAATAAAC	GCCCACTTTA	AATTTTTTAG	TAAACAAATG	14340
TTTACAAAAT	CAGCCTCGCT	CTTTTATTTC	TAGGCTCGGG	AAAAAATGAT	TTACAAAATC	14400
AGCCTCGCTC	TTTTATTTCT	AGGCTCGGGA	AAAAATGATT	TACAAAATCA	TTTTTTTCTG	14460

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> 790 CTATACTATC CTAAGCAAAG GTTTTTAATG TCATCCCGTG AGGTGACGAA GACGCAGAAA 14520 TATTTAAAAC TCTTTAAAAT CTAAATTTTA AAGAAGTCTT ACTCTGAGGG CCTATTGCTG 14580 TAAAATAATG GGCTCTTTTT TGATGCCCAA AAGTGAGGTT TATATGAAAC AAGAATCAAC 14640 TGTTGATTTG TTAC 14654

#### (2) INFORMATION FOR SEQ ID NO: 107:

### (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 6405 base pairs

(B) TYPE: nucleic acid
(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 107:

AGAAAAATCT	GCTTTACAGA	АААТАААААТ	AATAGGAGAA	AATCTATGTC	AGATTTGAAA	60
AAATACGAAG	GTGTCATTCC	AGCCTTCTAC	GCATGTTATG	ATGATCAAGG	AGAAGTAAGC	120
CCAGAACGTA	CGCGTGCCTT	GGTTCAATAC	TTCATTGATA	AAGGTGTTCA	AGGTCTTTAT	180
GTCAATGGTT	CTTCTGGTGA	ATGTATCTAC	CAAAGCGTTG	AAGATCGCAA	GTTGATTTTG	240
GAAGAAGTCA	TGGCGGTAGC	AAAGGTAAAT	TGACCATTAT	TGCCCATGTT	GCTTGCAATA	300
ATACTAAAGA	TAGTATGGAA	CTTGCTCGCC	ATGCTGAAAG	CTTGGGAGTA	GATGCTATTG	360
CAACGATTCC	ACCAATTTAT	TTCCGCTTGC	CAGAATACTC	AGTTGCCAAA	TACTGGAACG	420
ATATCAGTTC	TGCAGCTCCA	AACACAGACT	ACGTGATTTA	CAACATTCCT	CAATTGGCAG	480
GGGTTGCTTT	GACTCCAAGC	CTTTACACAG	AAATGTTGAA	AAATCCTCGT	GTTATCGGTG	540
TGAAGAACTC	TTCTATGCCA	GTTCAAGATA	TCCAAACCTT	TGTCAGCCTT	GGTGGAGAAG	600
ACCATATCGT	CTTTAATGGT	CCTGATGAGC	AGTTCCTAGG	AGGACGCCTC	ATGGGGGCTA	660
GGGCTGGTAT	CGGTGGTACT	TATGGTGCTA	TGCCAGAACT	CTTCTTGAAA	CTCAATCAGT	720
TGATTGCGGA	TAAGGACCTA	GAAACAGCGC	GTGAATTGCA	GTATGCTATC	AACGCAATCA	780
TTGGTAAACT	CACTTCTGCT	CATGGAAATA	TGTACGGTGT	CATCAAAGAA	GTCTTGAAAA	840
TCAATGAAGG	CTTGAATATT	GGATCTGTTC	GTTCACCATT	GACACCAGTG	ACTGAAGAAG	900
ATCGTCCAGT	TGTAGAAGCG	GCTGCTGCCT	TGATTCGTGA	AACCAAGGAG	CGCTTCCTCT	960
aatctaaaag	GAGGTATTTA	TGACATATTA	CGTTGCAATT	GATATCGGTG	GAACCAACAT	1020
CAAGTATGGT	TTGGTTGATC	AAGAGGGGCA	ACTTCTTGAA	TCGCATGAAA	TGCCAACTGA	1080
GGCGCATAAG	GGTGGACCTC	ATATCTTACA	AAAGACCAAA	GATATCGTAG	CTAGTTATTT	1140
AGAAAAAGGC	CCAGTAGCAG	GTGTTGCCAT	ATCTTCTGCT	GGGATGGTGG	ATCCGGATAA	1200

GGGTGAGATT	TTCTATGCTG	GGCCGCAAAT	CCCTAACTAC	GCAGGCACCC	AGTTCAAAAA	1260
GGAAATCGAA	GAAAGCTTTA	CTATTCCTTG	TGAGATTGAA	AATGATGTCA	ACTGTGCAGG	1320
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TGGAACCGGT	ATCGGTGGTT	GCTTGATTAT	GGATAGGAAA	GTCTTCCATG	GTTTTAGCAA	1440
TTCAGCCTGT	GÁAGTCGGGT	ATATGCATAT	GCAGGATGGA	GCTTTTCAAG	ACTTGGCTTC	1500
TACAACAGCT	TTAGTGAAAT	ATGTAGCTGA	AGCCCATGGA	GAAGATGTTG	ATCAGTGGAA	1560
TGGCCGTAGA	ATTTTCAAAG	AAGCCACTGA	AGGAAACAAA	ATCTGCATGG	AAGGTATTGA	1620
CCGTATGGTT	GACTATCTAG	GAAAAGGTCT	GGCAAATATT	TGCTACGTTG	CCAATCCAGA	1680
AGTGGTTATT	CTTGGTGGTG	GTATCATGGG	GCAAGAGGCT	ATCCTCAAAC	CTAAGATCCG	1740
TACAGCCTTG	AAAGAGGCTT	TGGTACCAAG	TTTAGCAGAA	AAAACACGAT	TAGAATTTGC	1800
CCATCACCAA	AATACAGCAG	GGATGTTGGG	TGCATATTAT	CATTTTAAGA	CAAAACAATC	1860
CTAGTTTGGC	TCAGCCAAAC	TAGGATTTTC	TTACACGTTT	TTGTCTACGA	TAGCCGTTGA	1920
GTTTTTTATT	TTCCCAGTAG	CTATTAAAGA	TTTTTTCCTT	GCTTTCGCGA	TTGATTTCCA	1980
AAAAGTAGGC	АТАААТСААА	TCGATAAAGA	AGAGCATAGG	AAGTTGAGCG	GATATTCGTT	2040
GGATATAGGA	GGGTTGGCTG	TGGGTGGCTA	CAAGAACAGT	CTCTGTATAG	GTCTGGCTAT	2100
CTTTATTGGG	AACACTTGTA	AAGAGTACAG	TCTTTGCCCC	CATCTCCTTA	GCATCTAATA	2160
GACTATCTAA	AATAGAAGGA	GTTGAGCCTG	AAAGTGAGAA	GCCCAGTACT	AGACAATTTT	2220
CATCCATGAT	GCTGGTTGTC	CAGGCAAAGC	CGTCTTGGTC	TGTCAAAGCT	TCGCAGACCA	2280
CACCTAGTCG	CATAAAACGT	AATTTCATTT	CACGGGCGAC	GAGGCCAGAA	CTCCCTGTTC	2340
CAAAGAAGTA	GATACGCTCA	GCATCTTCGA	TTAGCTGGGC	AATTCGTTCT	AGTTGGATTT	2400
CGTCAATCAA	GTCTTGTGTT	TGTTCCCTCA	TATTGCTATA	ACTTCTGAGG	ACTCGTTTGG	2460
TCAGTGGACT	GTGCTTGGAG	ACTTGGTTGG	CTTGATTTTC	TGCCTGATGT	TGGTATTGGA	2520
AAATAAATTC	TCGGTAGCCA	GTAAAGCCAC	ACTTTTTAGC	AAAGCGGGTC	AAAGCAGCTT	2580
GAGAAATATG	TAATTTTTGG	GTGACTTGTT	GAGAAGATAA	ATCATCTGTA	ATCGTTTCAG	2640
CTTGCAAAAA	ATAGCGAGCG	ATTTCTTGTT	CTAGGTCTGT	CATTTCTTCA	AAATGTGAAT	2700
CAATGATAGT	TGCGATATCT	GGTTTGTCCA	TAGGGAAAGC	TCCTTTACAT	GAGTCATACT	2760
GGAAGACTAG	ATCAGAGAAT	AGTCACACTT	CATTATAACA	САТААТАТАА	GGATAGATAA	2820
ATAAAAACGC	ATCTCTGTTT	TAAAAACGAA	AAAATCGAAA	AAGCTTCTCT	CTTTTCCATA	2880
ATTTTCTACT	CAAATTGTGG	TACAATTAAG	AGTAAGATTT	TAAGTTAGAA	ATGAGACTGA	2940

			792			
<b>PTTGTATGAG</b>	AAAATTTAAC	AGCCATTCGA	TTCCGATTCG	GCTTAATTTA	TTGTTTTCAA	3000
TCGTCATTTT	ACTCTTTATG	ACCATTATTG	GTCGTTTGTT	GTATATGCAG	GTTTTGAACA	3060
AGGATTTTTA	CGAAAAAAAG	CTAGCTTCAG	CTAGTCAGAC	CAAGATTACA	AGCAGTTCAG	3120
CCCGTGGGGA	AATTTATGAT	GCTAGTGGAA	AACCTTTGGT	AGAAAATACG	TTAAAGCAGG	3180
PTGTTTCCTT	TACGCGTAGC	AATAAAATGA	CGGCTACAGA	CTTAAAAGAA	ACAGCTAAAA	3240
AGTTACTGAC	TTATGTGAGC	ATCAGTTCTC	CAAATTTGAC	AGAACGCCAG	CTGGCGGATT	3300
ACTATTTGGC	TGATCCTGAA	ATCTATAAAA	AAATAGTGGA	AGCTCTCCCA	AGTGAGAAAC	3360
GCTTGGATTC	AGATGGCAAT	CGTCTATCCG	AATCAGAACT	GTATAACAAT	GCGGTCGATA	3420
GTGTACAAAC	GAGTCAACTA	AACTATACAG	AGGATGAAAA	GAAAGAAATC	TATCTTTTTA	3480
GTCAGTTAAA	TGCTGTTGGA	AACTTTGCGA	CAGGAACCAT	TGCGACAGAT	CCTCTAAATG	3540
ATTCTCAGGT	GGCTGTTATT	GCCTCTATTT	CAAAGGAGAT	GCCTGGCATT	AGTATTTCTA	3600
CTTCTTGGGA	TAGAAAGGTT	TTGGAAACTT	CCCTTTCTTC	TATAGTTGGG	AGTGTATCCA	3660
GTGAAAAAGC	TGGTCTCCCA	GCGGAAGAAG	CAGAAGCCTA	тсттаааааа	GGCTATTCTC	3720
TAAATGACCG	TGTAGGAACC	TCCTATTTGG	AAAAGCAATA	TGAAGAGACC	TTACAAGGAA	3780
AACGCTCGGT	AAAAGAAATC	CATCTGGATA	AATATGGCAA	TATGGAAAGC	GTGGATACAA	3840
ITGAGGAAGG	TAGTAAGGGA	AACAATATCA	AACTGACCAT	TGATTTGGCT	TTCCAAGATA	3900
GCGTGGATGC	TTTACTGAAA	AGTTATTTCA	ATTCTGAGCT	AGAAAATGGT	GGAGCCAAGT	3960
ATTCTGAAGG	TGTCTATGCA	GTCGCCCTTA	ACCCAAAAAC	AGGTGCGGTT	TTGTCTATGT	4020
CAGGGATTAA	ACATGACTTG	AAAACGGGAG	AGTTGACGCC	TGATTCCTTG	GGAACGGTAA	4080
CCAATGTCTT	TGTTCCAGGT	TCGGTTGTCA	AGGCGGCGAC	CATCAGCTCA	GGTTGGGAAA	4140
ATGGAGTCTT	GTCAGGAAAC	CAGACCTTGA	CAGACCAGTC	CATTGTCTTC	CAAGGTTCAG	4200
CTCCCATCAA	TTCTTGGTAT	ACTCAGGCTT	ACGGTTCATT	CCCTATCACA	GCGGTCCAAG	4260
CTCTGGAGTA	TTCATCAAAT	ACCTATATGG	TCCAAACAGC	CTTAGGTCTT	ATGGGGCAAA	4320
CCTATCAACC	CAATATGTTT	GTCGGCACCA	GCAATCTAGA	GTCTGCTATG	GAGAAACTGC	4380
GTTCAACCTT	TGGCGAATAT	GGCTTGGGTA	CTGCGACAGG	AATTGACCTA	CCAGATGAAT	4440
CTACTGGATT	TGTTCCCAAA	GAGTATAGCT	TTGCTAATTA	CATTACTAAT	GCCTTTGGGC	4500
AGTTTGATAA	CTATACGCCG	ATGCAGTTGG	CTCAGTATGT	AGCAACTATT	GCAAATAATG	4560
STGTTCGTGT	GGCTCCTCGT	attgttgaag	GCATTTATGG	TAATAATGAT	AAGGGAGGAC	4620
TGGGTGACTT	GATTCAGCAA	CTGCAACCGA	CAGAGATGAA	TAAGGTCAAT	ATATCCGACT	4680
CCGATATGAG	CATCTTGCAC	CAAGGTTTTT	ATCAGGTTGC	CCATGGTACT	AGTGGATTGA	4740

CAACTGGACG	TGCCTTTTCA	AATGGTGCCT	TGGTATCCAT	TAGCGGAAAA	ACAGGTACAG	4800
CCGAAAGCTA	TGTGGCAGAT	GGTCAGCAAG	CAACCAATAC	CAATGCGGTG	GCCTATGCCC	4860
CATCTGATAA	TCCCCAAATC	GCTGTCGCAG	TGCTCTTTCC	TCATAATACC	AATCTAACAA	4920
ATGGTGT <b>A</b> GG	ACCTTCCATT	GCGCGTGACA	TTATCAATCT	GTATCAAAAA	TACCATCCAA	4980
TGAATTAGAA	AGGAAATTAT	GCTTTATCCA	ACACCTATTG	CCAAGTTGAT	TGACAGTTAT	5040
TCTAAGTTAC	CAGGTATCGG	GATTAAGACG	GCTACGCGTC	TGGCCTTTTA	TACGATTGGG	5100
ATGTCTGCTG	ATGATGTCAA	TGAATTTGCA	AAAAATCTCC	TTTCTGCTAA	GAGAGAATTG	5160
ACATATTGTT	CTATTTGTGG	ACGTTTGACA	GACGACGATC	CTTGTTCTAT	CTGTACTGAT	5220
CCGACTCGTG	ACCAGACAAC	AATTTTAGTT	CTTGAGGATA	GTAGAGATGT	GGCAGCCATG	5280
GAAAATATCC	AAGAATACCA	TGGACTCTAT	CATGTCCTTC	ATGGCCTCAT	TTCTCCTATG	5340
AATGGTATCA	GTCCGGACGA	TATCAATCTC	AAGAGCCTTA	TGACTCGTCT	TATGGATAGT	5400
GAGGTTTCAG	AAGTGATTGT	GGCGACTAAT	GCTACAGCGG	ATGGTGAAGC	GACTTCCATG	5460
TATCTTTCAC	GTTTGCTCAA	GCCGGCTGGT	ATCAAGGTTA	CGCGTCTAGC	ACGAGGTCTC	5520
GCTGTGGGAG	CGGACATTGA	GTATGCGGAC	GAAGTGACAC	TCTTACGAGC	CATTGAAAAT	5580
CGGACAGAGT	TGTAAGTGTA	GGCAAATTTA	CGAACTCCAT	ТСАТТТАТАА	AAAATCAAAG	5640
AGGCTGAAAA	TCGTTCCTAT	CGGCCTCTTT	TTGTATAGTG	TGATGAGTAG	GCTCAGGTTC	5700
AAGTTTTAAA	AAACCAAGCA	AATATGATAT	ACTAAAGAGC	GAGTATTCTA	GTAGAATTAG	5760
GACAAATAAT	ATGAAACAAA	CGATTATTCT	TTTATATGGT	GGACGGAGTG	CGGAACGCGA	5820
AGTCTCTGTC	CTTTCAGCTG	AGAGTGTCAT	GCGTGCGGTC	GATTACGACC	GTTTCACAGT	5880
CAAGACTTTC	TTTATCAGTC	AGTCAGGTGA	CTTTATCAAA	ACACAGGAAT	TTAGTCATGC	5940
TCCGGGGCAA	GAAGACCGTC	TCATGACCAA	TGAAACCATT	GATTGGGATA	AGAAAGTTGC	6000
ACCAAGTGCT	ATCTACGAAG	AAGGTGCAGT	GGTCTTTCCA	GTCCTTCACG	GGCCAATGGG	6060
AGAAGATGGC	TCTGTTCAAG	GATTCTTGGA	AGTTTTGAAA	ATGCCTTACG	TTGGTTGCAA	6120
CATTTTGTCA	TCAAGTCTTG	CCATGGATAA	AATCACGACT	AAGCGTGTTC	TGGAATCTGC	6180
TGGTATTGCC	CAAGTTCCTT	ATGTGGCTAT	CGTTGAAGGC	GATGATGTGA	СТССТААААТ	6240
CGCTGAAGTG	GAAGAAAAT	TGGCTTATCC	AGTCTTCACT	AAGCCGTCAA	ACATGGGGTC	6300
TAGTGTCGGT	ATTTCTAAGT	CTGAAAACCA	AGAAGAACTC	CGTCAAGCCT	TAAAACTTGC	6360
CTTCCGATAT	GACAGCCGTG	TCTTGGTTGA	GCAAGGAGTG	AATGC		6405

<sup>(2)</sup> INFORMATION FOR SEQ ID NO: 108:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 11309 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 108:

60	TAACCATTTT	AACCTATTAT	TGATATGTAT	TTAAGGAGTT	TACCGGGATT	CGAGCTCGGG
120	AAAACCAATC	CAACCAACCA	AATTTTCATG	TTGTGATTGC	TCTGTTGTGA	ATTAGTATTA
180	CTCGCGGTTT	CGCAGTAAAG	TTTGTTTGAA	GTTCAGGTGA	TTTGATGCCA	CAGCAATGTA
240	CCATTGCCTT	TTCTGGCTAG	TTTAGTCTTT	TGACAGGGAT	ATGCAGCGTT	TGAAGCTGTA
300	TCTTTGCCTC	CAGGACTAGG	AAATAATGGG	GTAGATAAGA	GTATTATCAA	AGCATTGACG
360	AAAAATCTAG	AAGAAAATTA	TTTACAGTAA	TTGAGAAGGT	TAAAGGATGT	TTTTTATTT
420	GGTGACTGTT	ACAAGGGAAA	TATTTACAAG	AATAAAAGAA	TGAAAGATAG	AAAGAAAATA
480	GTTGATTAAA	ATTTTCGTGA	AGTTCCAAGG	GGGAAAAGAC	CTCAGGCTTT	AATGATTTGG
540	TAGTCTGACA	AAGAAGATGG	ATTCGTTTTG	AAAGCACCAA	TAATGGAAAG	ACCTTGTCCT
600	ССАТАААААТ	TTTTTCATGC	CTCAAGGGGA	TGAGATTACC	AGAAAAAACA	TTAGAAATTA
660	GAAAAATGAT	TTTTTGTAGG	GAGGACGACC	GGAAGGCGAG	TTGTTAGTCT	GGCTTTGGCT
720	CGCTGACCGC	TTAAGAAAGT	GAGGTAGTGA	TGATACCGTC	CTATTGATGG	GTCAACTATG
780	TTTGACAACA	TAGAACACAG	ATTGATATCC	AGCCAAAATT	CAGCAGCAGA	AATAAGGGAA
840	TATTCGTTCA	ATGCTGGCTA	AAACCTAAGT	GGATCAGGAA	AAATCGTTCT	GTTGTCGGGC
900	ATTAGAAGGA	CAGCCCTAAA	GTTAAGAAAC	ACCGATTTAT	AAATCAGTCA	AAAAATCAGA
960	TTTCTTTGTC	AGAAACATGA	TACCCAAGCA	TATCGATAAA	TCAAAGTCTT	ACAGAAGTTC
1020	TCTTGAGGTC	GAATTGATGT	ACGGATGTCG	GGGACACTCA	TCGATGTAGT	GCGAGTGTTC
1080	AGCAGAAAGT	TTGTTAAGGA	CCAGAAGCTG	ATCCGAGTTT	TGGACATTGT	TTGGAATCAA
1140	AGATGAAATT	TGGATCTAAG	GAAGGTCGTC	AAAGGATATG	CTCCGTCTCA	GTGCCTGATG
1200	TATCAAGGCT	ATGCAGTGCA	GACTTGGACG	GGATGCCAAG	TTGACGGTGC	ACCTTTACCA
1260	TTATGTGACC	ATGTTTCTTA	CACATCGCAG	GTTTGGGGTT	GCAATCTGGA	CTGAAAAATG
1320	CGTGACAGAC	CTTCTGTTTA	AACCGTGCGA	GGAAGCCCTT	CCCTTGACAA	GAGGGGTCTG
1380	СААТССССАА	TCTGCTCTCT	TCAAATGGCA	AGAACGACTA	CAATGCTTCC	CGAGTGGTGC
1440	TGTGGTCAAC	AACATGGTCG	GAGATTGATA	TGCTATTATG	TGACCCAGTC	GTTGACCGCC
1500	CGATGTCAAT	TGACCTATAG	AGTTTTCGTA	TATCAAGACC	CACAAACAGT	TATACCATTA

	GATATCCTAG	CTGGCGATGA	AGAAAAGAGA	AAAGAATATC	ATAAAATTGT	ATCAAGTATC	1560
	GAACTCATGG	CCAAGCTTCA	TGAAACTTTA	GAAAACATGC	GTGTGAAACG	TGGAGCTCTC	1620
	AATTTTGATA	CCAATGAAGC	GAAGATTTTA	GTGGATAAAC	AAGGTAAGCC	TGTTGATATC	1680
	GTTCTTCGGC	AGCGTGGTAT	TGCCGAGCGG	ATGATTGAGT	CTTTTATGTT	GATGGCTAAT	1740
,	GAAACAGTTG	CCGAACATTT	CAGCAAGTTG	GATTTGCCTT	TTATCTATCG	AATTCACGAG	1800
	GAGCCTAAGG	CTGAAAAGGT	TCAGAAGTTT	ATTGATTATG	CTTCGAGTTT	TGCCTTGCGC	1860
	ATTTATGGAA	CTGCCAGTGA	GATTAGTCAG	GAGGCACTTC	AAGACATCAT	GCGTGCTGTT	1920
	GAGGGAGAAC	CTTATGCAGA	TGTATTGTCC	ATGATGCTTC	TTCGCTCTAT	GCAGCAGGCT	1980
	CGTTATTCGG	AGCACAATCA	CGGCCACTAT	GGACTAGCTG	CTGACTATTA	TACTCACTTT	2040
	ACCAGTCCAA	TTCGTCGTTA	TCCAGACCTT	CTTGTTCACC	GTATGATTCG	GGATTACGGC	2100
	CGTTCTAAGG	AAATAGCAGA	GCATTTTGAA	CAAGTGATTC	CAGAGATTGC	GACCCAGTCT	2160
	TCCAACCGTG	AACGTCGTGC	CATAGAAGCT	GAGCGTGAAG	TCGAAGCCAT	GAAAAAGGCT	2220
	GAGTATATGG	AAGAATACGT	GGGTGAAGAG	TATGATGCAG	TTGTATCAAG	TATTGTCAAA	2280
	TTCGGTCTCT	TTGTCGAATT	GCCAAACACA	GTTGAAGGCT	TGATTCACAT	CACTAATCTG	2340
	CCTGAATTTT	ATCATTTCAA	TGAGCGTGAT	TTGACTCTTC	GTGGAGAAAA	ATCAGGTATC	2400
	ACTTTCCGAG	TGGGTCAGCA	GATCCGTATC	CGTGTTGAAA	GAGCGGATAA	AATGACTGGA	2460
	GAGATTGATT	TTTCATTCGT	ACCTAGTGAG	TTTGATGTGA	TTGAAAAAGG	CTTGAAACAG	2520
	TCTAGTCGTA	GTGGCAGAGG	GCGTGATTCA	AATCGTCGTT	CGGATAAGAA	GGAAGACAAG	2580
	AGAAAATCAG	GACGCTCAAA	TGATAAGCGT	AAGCATTCAC	AAAAAGACAA	GAAGAAAAA	2640
	GGAAAGAAAC	CTTTTTACAA	GGAAGTAGCT	AAGAAAGGAG	CCAAGCATGG	CAAAGGGCGA	2700
	GGGAAAGGTC	GTCGCACAAA	ATAAAAAGGC	ACGCCACGAC	TATACAATCG	TAGATACGCT	2760
	AGAGGCAGGG	ATGGTCCTGA	CTGGAACTGA	AATCAAGAGT	GTACGAGCTG	CTCGAATTAA	2820
	TCTCAAGGAT	GGCTTTGCTC	aagtgaaaaa	TGGAGAAGTT	TGGCTGAGCA	ATGTTCATAT	2880
	CGCGCCTTAC	GAAGAGGGCA	ATATCTGGAA	CCAGGAACCA	GAACGTCGTC	GTAAACTCCT	2940
	GCTCCATAAA	AAGCAAATTC	AAAAATTGGA	ACAAGAGATC	AAAGGGACAG	GAATGACCTT	3000
	AGTTCCCCTT	AAGGTCTATA	TAAAAGATGG	CTACGCTAAG	CTTCTTTTAG	GACTTGCCAA	3060
	AGGGAAGCAT	GACTATGACA	AACGGGAGTC	TATCAAACGT	CGTGAGCAAA	ATCGAGATAT	3120
	CGCGCGTGTG	ATGAAAGCTG	TTAATCAGCG	ATAAAAAGAG	GAATTGAAAA	TGGAAAAATT	3180
	AGTTGCCTAT	AAACGCATGC	CTTTGTGGAA	TAAACAAACA	ATGCCTGAAG	CTGTTCAGCA	3240

			796			
AAAGCACAAT	ACAAAAGTTG	GGACTTGGGG	GAAAATTACT	GTCTTGAAGG	GAGCTCTCAA	3300
GTTTATTGAA	TTGACAGAAG	AAGGGGAAGT	TCTAGCTGAA	CACCTCTTTG	AAGCAGGGGC	3360
AGACAATCCA	ATGGCCCAAC	CTCAAGCCTG	GCACCGAGTG	GAAGCTGCCA	CAGATGATGT	3420
GGAATGGTAC	TTGGAATTTT	ATTGTAAACC	TGAGGATTAT	TTTGCTAAAA	AATACAATAC	3480
CAATCCTGTT	CATTCAGAGG	TCCTAGAGGC	CATGCAGACA	GTGAAACAAG	GGAAAGCTTT	3540
GGATTTGGGT	TGTGGTCAGG	GGCGTAATTC	TCTTTTTCTA	GCCCAGCAAG	ATTTTGATGT	3600
GACGGCTGTA	GATCAAAATG	GACTAGCTCT	TGAAATCTTG	CAAAGCATTG	TGGAGCAGGA	3660
AGATTTGGAC	ATGCCTGTTG	GCCTTTACGA	TATCAATTCA	GCTAGCATTG	AACAAGAATA	3720
TGATTTTATC	GTTTCAACAG	TTGTTCTCAT	GTTTCTACAA	GCGGACCGCA	TTCCAGCTAT	3780
TATTCAAAAT	ATGCAGGAGA	AAACCAGTGT	TGGTGGTTAC	AACCTTATCG	TTTGTGCCAT	3840
GGACACGGAG	GATTATCCTT	GCTCGGTTAA	CTTCCCATTC	ACCTTTAAAG	AAGGAGAACT	3900
GGCAGACTAT	TACAAGGATT	GGGAATTGGT	TAAGTACAAT	GAAAATCCAG	GCCATTTGCA	3960
CCGTCGCGAT	GAGAATGGCA	ATCGTATTCA	ACTACGCTTT	GCGACCTTAC	TAGCTAAGAA	4020
AATCAAGTAA	ACACACATGA	AGATTAGGÁA	TTTTCCTGAT	CTTTTTTCTT	TTTTACGAAT	4080
GATATAGAAA	AGGAGGGAAT	TCATGTTTGT	TGCGAGAGAT	GCTAGGGGAG	AATTGGTAAA	4140
TGTGTTAGAG	GATAAACTTG	AGAAGCAAGC	ATACACCTGC	CCAGCTTGTG	GAGGCCAGCT	4200
CCATTTGCGT	CAAGGACCAA	GTGTACGGAC	GCATTTTGCC	CATAAATCCT	TAAAAGACTG	4260
TGATTTTTTC	TTTGAAAATG	AAAGTCCAGA	ACACCTGGCC	AATAAGGAAT	CCCTCTATCA	4320
CTGGTTGAAA	AAAGAGACAA	AGGTTCAATT	AGAGTACCCG	CTTTCAGAAC	TTAAACAGAT	4380
TGCGGATGTA	TTTGTAAATG	GCAATCTAGC	TCTAGAAGTT	CAGTGTAGTC	CCTTGCCTCA	4440
GAAAGTCCTT	AAAGAGCGAA	GTGAGGGCTA	TCGTAGTCAG	GGTTACCAAG	TACTGTGGTT	4500
GCTGGGTCAA	AAACTGTGGC	TCAAGGAGCG	TTTGACTCGT	CTACAGCAAG	GTTTTCTTTA	4560
TTTCAGTCAA	AACATGGGCT	TTTATGTTTG	GGAATTAGAC	AAGGAAAAAC	AAGTTTTAAG	4620
ACTCAAATAC	CTGATTTACC	AGGATCTCCG	CGGTAAACTC	CATTATCAAA	TCAAGGAATT	4680
TTCCTATGGT	CAAGGTAGTT	TATTGGAAAT	ATTGCGTCTT	CCCTATAAGA	GАСААААААТ	4740
ATCTCATTTT	ACAGTTTCTG	AGGACAAGGA	CATCTGTCGC	TATATCCGGC	AACAACTTTA	4800
ттатсаааат	CTCTTTTGGA	TGAAAGAACA	AGCAGAAGCC	TATCAAAAGG	GAGAAAATAT	4860
CCTGACTTAT	GGACTGAAAG	AATGGTATCC	ACAAATTCGA	CCAATAGTGG	GCAAATTTTT	4920
CCAGATTGAA	CAAGACTTGA	CTAGCTATTA	TCAGCACTTT	TATACCTATT	АССАААААА	4980
TCCTCAAAAT	GATTGGCAAA	AGCTTTATCC	ACCAGCCTTT	TATCAGCAAT	ATTTCTTGAA	5040

AAATATGGTA	GAATAGAAAG	GATGGAGGAA	TCTAATGGTA	TTACAAAGAA	ATGAAATAAA	5100
TGAAAAAGAT	ACATGGGATC	TATCAACGAT	CTACCCAACT	GAÇCAGGCTT	GGGAAGAAGC	5160
CTTAAAAGAT	TTAACAGAAC	AATTGGAGAC	AGTAGCCCAG	TATGAAGGCC	ATCTCTTGGA	5220
TAGTGCGGAT	AACCTACTAG	AAATCACTGA	ATTTTCTCTT	GAAATGGAAC	GCCAGATAGA	5280
GAAGCTTTAC	GCTTATGCTC	ATATGAAGAA	TGACCAGGAT	ACACGTGAAG	CTAAGTATCA	5340
AGAGTACTAT	GCCAAGGCCA	TGACACTCTA	CAGCCAGTTA	GACCAAGCCT	ТТТСАТТСТА	5400
TGAGCCTGAA	TTTATGGAGA	TTAGCGAAAA	GCAGTATGCT	GACTTTTTAG	AAGCTCAACC	5460
AAAGCTGCAG	GTTTATCAAC	ACTATTTTGA	CAAGCTTTTG	CAAGGCAAGG	ATCACGTTCT	5520
TTCACAACGT	GAAGAAGAAT	TATTGGCTGG	AGCTGGAGAA	ATCTTTGGTT	CAGCAAGTGA	5580
AACCTTCGCT	ATCTTGGACA	ATGCGGATAT	TGTGTTCCCT	TATGTCCTAG	ACGATGATGG	5640
TAAAGAAGTT	CAGCTATCTC	ATGGGACTTA	CACACGTTTG	ATGGAGTCTA	AAAAACGTGA	5700
GGTTCGCCGT	GGTGCCTATC	AAGCTCTTTA	TGCGACTTAC	GAACAATTCC	AACACACCTA	5760
TGCCAAAACC	TTGCAAACCA	ATGTTAAGGT	GCAAAATTAC	CGTGCTAAAG	TTCGTAACTA	5820
CAAGAGTGCT	CGTCATGCAG	CCCTCGCAGC	GAATTTTGTT	CCAGAAAGTG	TTTATGACAA	5880
TTTGGTAGCA	GCAGTTCGCA	AGCATTTGCC	ACTCTTACAT	CGCTATCTTG	AGCTTCGTTC	5940
AAAAATCTTG	GGGATTTCAG	ATCTCAAGAT	GTACGATGTC	TACACACCGC	TTTCATCTGT	6000
TGAATACAGT	TTTACCTACC	AAGAAGCCTT	GAAAAAAGCA	GAAGATGCTT	TGGCAGTCTT	6060
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CGAAAATCAA	GGCAAGCGTT	CAGGTGCCTA	CTCTGGTGGT	TCTTATGATA	CCAATGCCTT	6180
TATGCTTCTC	AACTGGCAAG	ACAATCTGGA	CAATCTCTTT	ACTCTTGTTC	ATGAAACAGG	6240
TCACAGTATG	CATTCAAGCT	ATACTCGTGA	AACTCAGCCT	TATGTTTACG	GGGATTACTC	6300
TATCTTTTTG	GCTGAGATTG	CCTCAACTAC	CAATGAAAAT	ATCTTGACGG	AGAAATTATT	6360
GGAAGAAGTG	GAAGACGACG	CAACACGCTT	TGCTATTCTC	AATAACTTCC	TAGATGGTTT	6420
CCGTGGAACA	GTTTTCCGCC	AAACTCAATT	TGCTGAGTTT	GAACACGCCA	TTCACCAAGC	6480
AGATCAAAAT	GGGGAGGTCT	TGACAAGCGA	TTTCCTAAAT	AAACTCTACG	CAGACTTGAA	6540
CCAAGAGTAT	TATGGTTTGA	GTAAGGAAGA	CAATCCTGAA	ATCCAATACG	AGTGGGCTCG	6600
CATTCCACAC	TTCTACTATA	ACTACTATGT	ATATCAATAT	TCAACTGGCT	TTGCGGCCGC	6660
CTCAGCCTTG	GCTGAAAAAA	TTGTCCATGG	TAGTCAAGAA	GACCGTGACC	GCTATATCGA	6720
CTACCTCAAG	GCAGGTAAGT	CGGACTATCC	ACTTAATGTC	ATGAGAAAAG	CTGGTGTTGA	6780

			798			
TATGGAGAAG	GAAGACTACC	TCAACGATGC	CTTTGCAGTC	TTTGAACGCC	GTTTAAATGA	6840
GTTTGAAGCC	CTTGTTGAAA	AATTAGGATT	GGCATAAAAT	GGTTGAATCG	TATAGTAAGA	6900
ATGCTAACCA	TAACATGCGT	CGTCCTGTCG	TCAAAGAAGA	AATTGTAGAC	TTGATGCGTC	6960
AGCGTCAAAA	GCAGGTCACA`	GGTTTCTTGA	aagaattgga	AGACTTTGCC	CGCAAGGAAA	7020
АТАТТССТАТ	TATTCCCCAT	GAAACGGTTG	CTTATTTCCG	TTTTCTTATG	GAAACCATGC	7080
AGCCTAAAAA	TATTCTGGAA	ATTGGGACGG	CTATCGGTTT	TTCAGCTCTC	TTGATGGCTG	7140
AACATGCGCC	AAATGCTAAG	ATTACAACTA	TTGATCGTAA	TCCAGAAATG	ATTGGTTTTG	7200
CCAAGGAAAA	TTTTGCCCAG	TTTGACAGTC	GCAAGCAAAT	CACTCTCCTA	GAGGGAGATG	7260
CGGTGGATGT	CTTATCTACA	CTGACAGAGT	CTTATGATTT	CGTCTTTATG	GATTCTGCCA	7320
AGTCTAAATA	CATCGTCTTT	CTGCCAGAAA	TCCTCAAACA	TTTGGAAGTT	GGTGGTGTGG	7380
TTGTCTTGGA	TGATATTTT	CAAGGTGGTG	ATGTTGCCAA	GGATATTATG	GAAGTCCGTC	7440
GTGGTCAGCG	AACCATTTAT	CGAGGCCTTC	TTATTAAAAA	TGATGCAACC	TTAGACAATC	7500
CAGAACTCAC	CGCAACATTA	GTGCCTTTAG	GAGATGGTAT	TCTCATGCTT	CGTAAAAATG	7560
TAGCAGATGT	TCAACTGTCT	GAAAGCGAAT	GATTTTCAGA	AAAATTTAAG	AAAAAATAGT	7620
AAAATAGATA	GAGTAACACT	TATCTCAAAG	GAGTAGACAT	GAAGAAAAA	TTATTGGCAG	7680
GTGCCATCAC	ACTATTATCA	GTAGCAACTT	TAGCAGCTTG	TTCGAAAGGG	TCAGAAGGTG	7740
CAGACCTTAT	CAGCATGAAA	GGGGATGTCA	TTACAGAACA	TCAATTTTAT	GAGCAAGTGA	7800
AAAGCAACCC	TTCAGCCCAA	CAAGTCTTGT	TAAATATGAC	CATCCAAAAA	GTTTTTGAAA	7860
AACAATATGG	CTCAGAGCTT	GATGATAAAG	AGGTTGATGA	TACTATTGCC	GAAGAAAAA	7920
AACAATATGG	CGAAAACTAC	CAACGTGTCT	TGTCACAAGC	AGGTATGACT	CTTGAAACAC	7980
GTAAAGCTCA	AATTCGTACA	AGTAAATTAG	TTGAGTTGGC	agttaagaag	GTAGCAGAAG	8040
CTGAATTGAC	AGATGAAGCC	TATAAGAAAG	CCTTTGATGA	GTACACTCCA	GATGTAACGG	8100
CTCAAATCAT	CCGTCTTAAT	AATGAAGATA	AGGCCAAAGA	AGTTCTCGAA	AAAGCCAAGG	8160
CAGAAGGTGC	TGATTTTGCT	CAATTAGCCA	AAGATAATTC	aactgatgaa	AAAACAAAAG	8220
AAAATGGTGG	AGAAATTACC	TTTGATTCTG	CTTCAACAGA	AGTACCTGAG	CAAGTCAAAA	8280
AAGCCGCTTT	CGCTTTAGAT	GTGGATGGTG	TTTCTGATGT	GATTACAGCA	ACTGGCACAC	8340
AAGCCTACAG	TAGCCAATAT	TACATTGTAA	AACTCACTAA	GAAAACAGAA	AAATCATCTA	8400
atattgatga	CTACAAAGAA	AAAATTAAA	CTGTTATCTT	GACTCAAAAA	CAAAATGATT	8460
CAACATTTGT	TCAAAGCATT	ATCGGAAAAG	AATTGCAAGC	AGCCAATATC	AAGGTTAAGG	8520
3.003.3.000mm	GG2 2 2 2 M2 MG	mmm > 000 > > m	1.001.000.000.000.000.000.000.000.000.0	maa. a. mma.		0500

GTAGTACATC	AAACGAATAG	TCCAAATCAA	TGAGTCAGGG	AAAAAACTCG	ACTTCAGGAA	8640
AAAATGAAGC	AAACATTCCC	ACAATAAAAC	GCATAGTACA	AGGTTTGTAC	TGCCCCCAA	8700
AAAGTTAGAC	AATTAATTTA	TCCGAAGGAT	TTAGTTCTGT	ATTGCACAGA	GCTAAGTCCT	8760
TTTAGTTTTA	TCTTAATTCT	CTTATTGTTG	ТААТААТСАА	TATAGTCTAT	AATGGCTCGT	8820
TCCAATTGAT	TAAGTGATTT	AAATGTTTTC	TCATAGCCAT	AAAACATTTC	GGATTTTAAA	8880
ATGCCAAAGA	AAGATTCCAT	CCTACCGTTG	TCTTGGCTGT	TGCCCTTACG	TGACATGGAT	8940
GCTTGAATTC	CCTTACTCTC	TAGGAAGCGA	TGATAAGAAT	CGTGTTGATA	TTGCCAGCCT	9000
TGGTCACTAT	GGAGAATCGT	ATTCTCGTAG	TGCTTCTCTT	TGAATGCCTG	TTCCAACATT	9060
AACGATCAAT	CAATTTAATC	ATGTACCTAA	GATTAGAATT	GTTTATCCCA	AATTTÄTTTG	9120
AAAGCTTCTC	TAAGCTATAT	CCTTGTTTTC	TAAGTTCATA	GATCTGAACT	TTATCATCAT	9180
AAGTTAATTT	CATAATAAAA	ACACCCCAAA	AGTTAGATTT	TTTCTGTCTA	ACTITIGGG	9240
TGTAGTTCAT	GTACACCTGA	TATGATGCGT	TTTATAATTT	TAAAGACTTT	TTGACCAGCC	9300
TCATTTTTT	AACTTGATAC	TCAGTGAAAA	GCAAAGATTA	AACTAGGAAG	CTAGCTGTAG	, 9360
GCTGCTCAAA	GAACAGCTTT	GAGGTTGTAG	ATAAAACTTG	TGAGGTCACC	AACATATATA	9420
ATGTGAAGCT	GACGTGGTTT	GAATAGATTT	TAGAAGAGTA	TGAGTCTGGA	AGTTTTAATG	9480
GATAATGCAA	GATTCCATAG	AATGGGTAAG	CTAGAGTTCT	TATGTGAAGA	GTTTGGGCAT	9540
AAACTTTTAC	CTTTTCCTCC	CTACTCATCT	TAGTATAGAA	AAGTGAATCT	GAAATAGTAC	9600
ATAACTGCTT	CTAAAACATT	CTTATAAATT	GATTTAAATT	CTCAAATCAT	ATTATTCAGT	9660
TCTTATTTCA	TTTTGTTCTA	CAATCCTGTT	GAGAAGACAC	GTGTTCATAT	CAAAAAGGTA	9720
TTGGCAAGTT	GCAATACCTT	TTTACGAGGC	TCTGTTGTCT	TATTTTTGTT	TCAACTGACT	9780
ATATCTCCTA	TGGTTCTAGT	TCAGAAGGCT	AGGCTATAAT	TATGATTGAT	AAGAAGTATC	9840
ATTCCAAGTA	TTGGGAGTGA	ATGTTTCAAA	ATCATGGGTT	TCTATAATGG	TCAGGCTGGC	9900
ATTTGCTAGA	CCGCCATCTT	TACGAAGAAG	TGGTTCTTTA	TAGCCTAGGA	GAGTACGAAG	. 9960
ACTGGCAGTA	AGATTGGCGC	CGTGTCCGAC	AATTAGAATA	CGTTCAGCTG	GACTATCTTT	10020
TAATGATTTG	ATAAATTGGA	TGGTCCGTTG	AGTTGTACTA	TAGAGGGATT	CGGCTCCGAA	10080
CATTCGAGTG	TCAAATTGAG	CAAGATTTGA	ACGAAAAGCC	TGGATTTGTT	GCGGGTAAAT	10140
AGCTTCCAAG	GTTGCAATTT	TCAAACCTTC	TAACTTCCCA	AGTTGCCATT	CACGGAGATT	10200
AGGAACGATT	TCTAAAGAAC	AGGGGGTATA	GAGTTGACTT	TGGATAATCT	CAGCAGATTT	10260
GACCGCTCGA	GGTAAATCAC	TTGAATAAAT	CTGATCAAAA	GGAATTTCCT	TGAGATACTG	10320

			800		•	
ACCAAGTCGT	TTTAGGGTTT	CAATGGATTC	AGGAAGAAGA	GGAGAATCAC	CACTAGCACC	10380
TTGAAAACGA	CCTTCTTGGT	TCCAGAGGGT	ACGACCGTGG	CGGACAAAGT	AGAGTTTCAT	10440
TACTTGATGT	CCTCCAAAAT	ATCTACAAAG	TCTGCCTTTA	CAAAGCTAGC	CAAGTCTTGT	10500
GGCGCGACGA	TAATGCTGTG	TCCGACTTCG	CCTGCAGAGA	CAATCATTTG	ATCCAAATCT	10560
AGAGCAATTT	TATCGATAAA	AATGGGATAA	TTGTGTTTCT	GACGAATTCC	GACAGGATTA	10620
TTGGCTCCAT	GAATGTAACC	AGTTGTTTTT	TCTAAGTCCT	TTTGTGGAAT	CATGCTCACT	10680
TTTTTATTGC	CAGAAATTTT	AGCTAGTTTC	TTTTCAGACA	AGTGCTGAGT	GATAGGGACA	10740
ATTCCGATAA	TCGGTCCGGT	CTTGTCTCCC	AAAAGCGCCA	AGGTTTTGAA	AATCTGATCT	10800
CGTTCATAAC	CTTGAGGAAG	CTCTCCTTCT	AGGGCATTGA	TTTGAATCCC	CTGATGAGGG	10860
ATAGCTGCTT	TAGATAGGAT	TTGTTCCACC	AATGTTTTTT	TGATTTTAAC	TTTTTTTGCC	10920
ATATTTATTA	TTTATCCTCC	AATTGACTCA	TCCAAATACC	AAGCCAGATT	CCCAGCGCAA	10980
AGAAGAAGGC	GATGATGACA	TAACCGACAA	GTGAAAGTCC	TGTGTATTGG	ATACTTTCAG	11040
CGTTTCCTGC	ATTTGGAATT	AAGATCAAAA	GGGTACTTGA	TAGGACGATA	CCGATGATGA	11100
<b>AATGATA</b> GAC	GAACTGTTTA	CGGAGTTCTT	CTAGTTCTCC	GTCCGTCCAA	GCGTAGGCCA	11160
СТТСТТСТТТ	CTTGCCTTTA	CCTTTGGACA	TCTTGTAAAG	AGGTGGGAGG	GCAATATAGA	11220
CATGACCTGC	CTCGACTAGC	GGACGCATGT	AACGGTAGAA	AAATGTCAAG	AGCAAGGTCT	11280
GGATATGGGC	ACCGTCGGTA	TCCGCATCG				11309
(2) INFORMA	TION FOR SE	O ID NO: 10	9 :			

# (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 5548 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 109:

CCATAGTCTA	ACAAGTCTTT	GTAAAGGTTT	ATCCCTGATT	CATGTAAAGA	TTGTGTAAAG	60
AATCAAAAA	AGCCACTTTT	GAAAAATGGC	TGCTCCTAAA	AATAGCTTTA	ATTATTAAAA	120
GTCCTGTGCG	AAAGATTGGT	TAGGAAGAAA	AATCGTGAAG	CAACTGCCTC	TGCCAAGCTG	180
ACTCGTCACC	GTGACTTGGC	CACCTAATAA	TTGACTGAGT	TCTTTGACAA	TGGCAAGGCC	240
AAGACCAGTG	CCACCAGTTT	GTCTGCTTCG	ACCTTTATTA	ACTCGGTAAA	AACGTTCAAA	300
AATACGATCC	TGCTCTAATT	GACTAATACC	AATCCCTGTA	TCTGATACAG	AAATCTTAAT	360
GCCTTCGTTC	ACCTTTTGGG	TCTTGACCTC	AATTTTTCCC	CCTTGTTCAG	TGTAACGGAT	420

						•
GGCATTGGAT	AAAAGATTGA	GTAAGATTTG	GGAAAGTAAT	TGACTATCTG	ATACGAGGGT	480
GACATCATCT	GGCACCTGCA	CCTTTAGCTG	TAAATCCTTC	TTCTTGAGCT	GAGGTTGCAA	540
GCTTTGAGTC	AAATCCTGTA	CAAATTCTGC	CAAAGAAAGG	GTCGTCCATT	GTATAGGCAT	600
TTGTTGAGCC	TTAGATAAGG	TAAGAAGATG	CTCAACAATA	TGCTCAAGAC	GCAAACTTTC	660
TTTGTAAATA	ATGTCTAGAA	AGTCATCCTT	GAGCGCTTCT	TCTTCAGCTG	ACATCCCCTT	720
AATGGTTTCA	GCAAAGCCCT	TAATCGAAGT	AACTGGTGTC	CTCAATTCAT	GGGAGGCATT	780
TGAGACAAAG	GCTAAATTTA	ACTTTTCATA	AGTTCTAATC	GTTGTTAAAT	CATATAGCAA	840
GACGAGCACA	GCTTCCACAG	ATTGGGTGGG	GCTAAAAACG	GGAACTGCTG	TCACTTCTAA	900
AATCAAGTCA	CCCTCATGAA	ACCCACTTAC	TTCTTGTTTT	AACCTTGTTT	TTTGATCAAA	960
GGCTTGGTGA	ACTAAATTCC	GAATATCCAT	CCGTTTGAGG	TCATCAAGTG	AACTTATGTC	1020
GCCGTCCACA	TCGGGAAAAT	AATGAGGCAG	AGAGCGACTG	GATAATAACA	TCTGACCTTG	1080
AGCGGAAACT	AAAAACGTCC	CCATGGTTAG	GTGCGACAGA	AGAACCTCCA	TTGTTTCGGC	1140
TAGATCCTTG	TATTGCTGAT	CCTGTTGGGA	GACTTTGGTT	TTTAGGCCAG	ACACATACTG	1200
AGCCAAAGAC	TTTAAGTCTT	CTTGCCCTTT	TTCTAAAAAG	TATTCACTAC	TGGTCAAGAG	1260
AGGTTGGTGC	AAGGTCTCAA	AAGCAACTTC	CCATTTCCAA	AGGCAAAAGA	GCCAGTAGCC	1320
ACCTAGTCCC	AAAGAAAGGG	CTAGAAGAAA	GAGACCGATG	CCTTTACTGA	TCCAAGTTAA	1380
TGCCATCCCT	GCAATCAGAA	TGAGGCTAAC	ACTTAGATTG	ACTAGCCAAA	ATTGAAGGTA	1440
GCGTTTCATC	TATAACTCCT	TGAACTTATA	ACCATAACCC	CGAATGGTTC	GAATAAATTG	1500
AGGGGCTTTA	GGATTGTCTT	CAATTTTTTC	CCTCAACTTA	CCAATATGAA	CGTCCACCAA	1560
ACGTGTTTCC	TGCCCAAAGT	CATACCCCCA	GATACGTTCC	AAAAGACGCT	CTCTAGTCAG	1620
TGTCATGTTG	GGATGTTTCA	TAAGATAGAG	CAAGAGTTCA	AATTCTTTTG	GGGTCAAACT	1680
CAGTAACTTA	TTCGCCTTGT	AGACTTCATG	ACGCTCAGGG	TATACTTTCA	AGGTCCCAAA	1740
TAGCCAAGAA	TCGTCAGCGA	TATTATCTGA	ATCATCTCCT	TCTTGTTCTC	CTTTAGTTCG	1800
CCTGAGGACA	GCCTTGACAC	GCGCCAGCAA	TTCTCTAGGG	CTAAAAGGCT	TGGTCAGGTA	1860
GTCATCAGCC	CCTAATTCCA	AGGCCAAAAC	CTTATCAAAT	TCATCACTTT	TCGCAGAAAC	1920
CATCATAATT	GGAGTTTTGA	CGCCTTTGGC	TCTCAGCCGC	TTACAAACTT	CCATGCCATC	1980
TAATTGTGGT	AACATGATAT	CAAGCAAGAT	AAAATCAAAG	GGTTCTGTTT	CTGCCAAAGC	2040
TAAGGCCTTC	CGTCCATTTG	TCACCAATTG	AGTAGAAAAG	CCTTCCTTAC	TTAAATGGTA	2100
GTCAAGCAAT	TTCAGAATGT	GTTCTTCATC	ATCCACTAAT	AAGACTTGTT	TTGTCATCTA	2160

			802			
ттатстсста	TTGGTAACAT	TATAACACAA	TTATCAGAAA	TCCTAACATT	GCTAAATCAG	2220
ATTAAATTTG	CCTATCAAGA	CTAGTATCTG	GTCAAACGCT	CAATCATCTC	CTTGTGCTCT	2280
GGATAGGTCG	CCAGTAGATC	TACCCTTTCA	AATAATTCAA	AATCCTCAAA	TTCAAAACCA	2340
GGAGCAACAA	GACAAGAAAC	CAGAGCATCA	TCCTTATCAA	CTGTTGATCC	CCAAATAGTG	2400
CCCTTAGGAA	CACAGTAGTG	AAGTTGTTGC	CCTTTGGATA	TGTCCAGGCC	TAAAGTGACT	2460
GCTTCGTAGT	GACCATCTGC	TGTAATCATG	TGAACAGTAA	GTGGGGATCC	TGCATGAAAA	2520
TACCAGATTT	CATCTGCTGT	CAATCGGTGA	AAATGTGAAG	GATTCGTTTC	TTCTAATAAG	2580
АААТАААТАС	TGGTATAAAG	CGCCCTTCCC	TTACCAGCAA	GGTTTATAGT	GTCTGAAGCT	2640
TTTTTTGTTT	GTCTAAAATA	GCCACCTTCA	ATATGGGGAG	CTAACTCTAG	ACTTCTTATC	2700
AAGTCTTCTT	TATCCGTCGG	AGCCAATGGG	TTGAAGTAAC	TCTTGTTCAA	AGTGGTTTTA	2760
CGATTTCAAG	AACTCCTCTC	AGTTCTGAGG	ACACGGTAAT	GATTGATGCG	ACGGAAGTAC	2820
AAATCAATCG	CCCTAAAAAA	AGAATTAGCG	AATGATTCTG	<b>GTAAAAAAA</b>	TGCCACGCTA	2880
TGAAGGCTCA	AGCGATTGTC	ACAAGTCAAG	GGAGAATTGT	TTCTTTGGAT	ATCGCTGTGA	2940
ACTATTGTCA	TGATATGAAG	TTGTTCAAAA	TGAGTCGCAG	AAATATCGGA	CAAGCTGGTA	3000
AAATCTTGGC	TGACAGTGGT	TATCAAGGGC	TCATGAAGAT	ATATCCTCAA	GCACAAACTC	3060
CACGTAAATC	CAGCAAACTC	AAGCCACTAA	CAGTTGAAGA	TAAAGCCTAT	AACCATGCGC	3120
TATCCAAGGA	GAGAAGCAAG	GTTGAGAACA	TCTTTGCCAA	AGTAAAAACG	TTTAAAATGA	3180
TTTCAACAAC	CTATCGAAAT	CATCGTAAAC	ACTTCGGATT	ACGAATGAAT	TTGATTGCTG	3240
GCATTATCAA	TCATGAACTA	GGATTCTAGT	TTTGCAGGAA	GTCTATTATT	TGGTTAGGTG	3300
aattagtgaa	GCGTTTAGGC	AAGTGTCTCT	GGTTACGACG	TCATGGACTC	TAAATCGATT	3360
ATATTTAGGG	GTCATGACTA	GTGAAGCAGT	TAGCTAGTTC	GCATATAAGC	GGCTAGCGTC	3420
TAACAATTAG	GAACTTTAGT	TCCAATAACT	TTAAGATTAC	GACGTTTTAG	GACATAAATC	3480
GATCATATTT	ATGTCCTAAA	ACTAGTGAAG	CGCCTAGCCA	AAGTCCGAAT	AGGATTTGGC	3540
GTTAGTTACT	TAGATTGCTT	TGCAATCAAG	TAACTTTGGC	GATTTACATC	TTCTCTGGCG	3600
CTTCTACTCC	AAGCAAGCGA	AGGGCTTCTT	TGAGAACGAC	TGCGGTTGCG	TAGCTGAGGG	3660
CTAGACGGCT	GTCGCGTTCT	GGGCTTTCAT	CCAAGATACG	TGTATGTGCA	TAGTATTTGT	3720
TAAAGGATTG	AGCCAGGCTA	ATTGCAAATT	TAGCAATGAT	AGAAGGTTCA	AAGTTATCTG	3780
CCGCACGGTT	GATAATACGT	GGGAAGTCTT	GAATGAGTTT	AATGATTTCC	CAGCTTTCAG	3840
TATCATTCAA	GCTATAGTTG	CCAGCTGTTT	CTGGTTTGAA	ATCGGCTTTG	CGTAAGATAG	3900
ATTGGATACG	AGCGTAGGCA	TATTGAACGT	AAGGTCCAGT	TTCACCCTCG	AAGGATACCA	3960

TAGCCTCTAG	GTCGAAGTCG	TATCCATTTG	TACGGTCGGT	TTTGAGGTCA	TAGAATTTAA	4020
TGGCTCCAAT	CCCAACAGCA	TGTGCTACTT	GGTCTTTGTT	TTCTAGTTCA	GGATTTTTAG	4080
CCTCGATTTG	GACCTTGGCA	CGGCTAACAG	CCTCTGCAAC	AGTAGGCTCT	AGCAAGATGA	4140
CATTCCCTTT	ACGAGTAGAG	AGTTTCTTCC	CTTCTTTTGT	AACCAAACCA	AAAGGAACGT	4200
GAGTAATGTC	GTCACTCCAG	TCGTAGCCCA	TCTCTTGCAA	GACAGCTTTG	AGCTGTTTAA	4260
AGTGGGCAGA	TTGTTCTTGA	CCAACGACAT	AGATAGATTT	AGCAAATTGG	TATTCGTTTT	4320
TACGGTAGAG	GGCTGCAGCC	AAGTCACGTG	TGATATAGAG	AGTTGCACCA	TCAGACTTCT	4380
TGATGAGGC	TGGATGTTCA	ATTCCATATT	TCTCAAGATT	CACAACTTGG	GCACCTTCTG	4440
ATTCAAGAAG	TAGTCCTTTT	TCAGAAAGAA	TGTCTACAAC	TGCATCCATC	TTATCATTGT	4500
AGAAGGCTTC	TCCGTTATAG	CTGTCAAATT	CAACCTTCAA	TTCATTGTAA	AGGCGGTTAA	4560
ATTCCACTAA	ACTTTCATCG	CGGAACCATT	GCCAAAGAGC	GAGAGCTTCC	TCATCTCCAT	4620
TTTCAAGTTT	ACGGAACCAT	TCGCGCGCTT	CTTCATCCAA	GCTAGGGTCA	TTTTCAGCTT	4680
CAGCGTTGAT	GCGGACATAG	AGTTTAAGGA	GTTCATCGAT	TGGATGAGCT	TTTACAGCTT	4740
CTTCGTCGCC	CCATTTTTTG	TAGGCAACAA	TCAACATCCC	AAATTGTTTA	CCCCAGTCTC	4800
CCAAATGGTT	GACCTTGACC	GTTTGATAAC	CGATTTTTTG	GAAAATATGT	GACAAGCTAT	4860
CTCCGATAAC	AGTTGAACGC	AGGTGGCCAA	TAGAAAATGG	TTTAGCGATA	TTCGGACTAG	4920
ACATGTCGAT	AACAACATTT	TCTTGTTTAC	CAATATTTTG	GTCAGCATAG	TGTTCTTTTT	4980
CAGTGGTAAC	AGCTTGCAAT	ACTTGAGCAG	AAATGGCAGA	TTTATCAAGG	AAAAAGTTAA	5040
CGTAAGGTCC	TGTTGCGACA	ACTTTTTCAA	AGGCTTGGCT	GTTCATTTTT	TCAGCCAGTT	5100
CAGCCGCAAT	CATTTGTGGT	GCTTTACGTT	CGACTTTTGC	AAGAGAAAAA	GCAGGGAAAG	5160
CAATGTCTCC	CATTTCTGAG	TTTTTAGGGG	TTTCCAGTAA	СТТТААААТА	GCCTCTTGGT	5220
CCAGGCTATC	AATGATGCTA	GATAATTCGC	TAGCAATCAA	TTCTTTTGTA	TTCATTAAGA	5280
GCTCCTTTTT	GGACTTTTCT	ACTATTTTAT	CACAATTTTA	AAGAAAGAAG	ААААААТТТТ	5340
TGAAATCTCC	TGTTTTTTTG	GTATAATATG	GTTATAAATA	TAGTTATAAA	TATGCACGCA	5400
AGAGGATTTT	ATGAGAAAAA	GAGATCGTCA	TCAGTTAATA	AAAAAAATGA	TTACTGAGGA	5460
GAAATTAAGT	ACACAAAAAG	AAATTCAAGA	TCGGTTGGAG	GCGCACAATG	TTTGTGTGAC	5520
GCAGACAACC	TTGTCTCGTG	ATTTGCGG				5548

## (2) INFORMATION FOR SEQ ID NO: 110:

<sup>(</sup>i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 3132 base pairs

804

(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 110:

60	CTCTGATAAA	CTTTAAACAT	TCTGAAGATG	CACATCTAGC	TCTTAGCAGA	TACCCGGTAG
120	GGAAACTTCA	ATAGTGCTAT	GAAAATATCC	AGAGAAACAT	CAGAAAATAA	GAAAAAGTAG
180	TAGTAAAAAT	AAGAAGTTGT	ATTAAGGAAA	AACAGCAGTC	AAGAGAAGAA	CAGGATTTTA
240	AAATTCCAAT	TCAAAGAAGA	GAAGCAAAAA	TAGCAATGAA	ACAATAACAC	CCTGTGATAG
300	TCCCAAAAAA	ACACAGAAAA	GTGAATAAAA	GGACTCATTT	GAGATTATAC	AAATCCCAAG
360	AAAAGCAATC	AATCTGGAGA	AAAGATAAAG	TGCTGAATTT	TTGTCTATAT	GAAGATAAAG
420	AATTTTTAAC	CTTATGATAG	GTTTTATATA	GAATACAAAA	CCAGTCTTAA	AAGGAACTAT
480	AGAAGGTATT	TTAAACAAAT	TTGGACAAAA	TCCAGATAAC	TAGAAACAAC	GGTAGTGCCA
540	AAAGGAAATT	ATCATGCCAG	CCCATGATGA	AAAAGTCCAA	AAAGGGCACA	TCATCGGTTG
600	GAAAAATTTT	CTCCGTTTGG	TCTATCAATG	TTACCTAAAG	AAGCTATTGA	GGAGTTGAGG
660	ACATAAGGCT	CAGATTATAG	GATACTGGAA	TTCAAATATC	GTATGGTCAT	GATGGTAGAG
720	CTTAAAAGGC	AAAAAGAAGA	ATGAGATTTA	CAAAGCCTCA	ATGATGATGC	ATGAGAATCG
780	TTATAATGGT	CGTTCAATTA	ATCCCTCATG	GAGTGATAAA	ATTATTGGTT	actgataaaa
840	ACATGGGATG	ATTTTGACCC	GGAAGGGATT	ATATGATGAT	CTGTAGAAAA	GGCAAAATCA
900	CTTTAACGGC	ACATCAAAAA	ACTGAACAAG	TGGAAATGAT	GGATTCTTGC	CATATTGCAG
960	TGACGCAGGA	AAATGTATTC	TTCTCTTACA	TGCACAAATT	TTGCACCTAA	ATAGATGGAA
1020	CAAACACAAC	AAGATTCTAT	CATGCTATTG	AACAATGTTT	CGGGTGATGA	TCTGGGTTTG
1080	TGAGAAATAT	GTCTTGTAGG	ACAGGAACAG	ATCTGGTTTT	TTTCGGTATC	GTTGATGTTG
1140	TACGGGTAAC	TGGTTGTCGC	GGCATTCCAA	AAGAAAAGCA	TTCGGGCATT	TGGCAAGCTA
1200	TCTGAAAATG	CAAATAATCA	GATTTAGTAG	TTCTTCATGG	CTGCTTCAAG	TATGCGACTT
1260	GGTCGCTTCT	ATGCGATAGC	GCACATGAAG	ACGAACTGCA	GAAATGTAAC	ACCGACACTG
1320	TTTTAAATAC	GTGGAGAAAG	GTTAACATAG	GTTTGATAAA	AAACAGTTGA	GCTAAAAATC
1380	TGGAACAAAA	CAAATGAAGA	AAAATCACAA	CGATAAGAGT	GGGCCTTTTT	AGAAATATAG
1440	TTTGATAGGT	AAGACCAAGA	GGCAAGGGGC	TGTATATATA	AATTAAAATT	GCTCCTAGTA
1500	TTTAAAAAAAT	ATACAAAGGA	GATAGAATTT	TGCAGTAATG	GGGGCAAAAT	TTGGATCTTA
. 1560	TACTGTAAAT	TGGTTGTAAA	CGCGCCATTA	TAAGGGTGCA	AAGCTATGGA	GCTTTTAAAA

ТАСТАСААТА	GAGATAATTG	GACAGAGCTT	CCAGCTATGG	GATATGAAGC	GGATGAAGGT	1620
ACTAAAAGTC	AAGTGTTTTC	AATTTCAGGA	GATGATGCTG	TAAAGCTATG	GAACATGATT	1680
AATCCTGATA	AAAAAACTGA	AGTCAAAAGA	AATAATAAAG	AAGATTTTAA	AGATAAATTG	1740
GAGCAATACT	ATCCAATTGA	TATGGAAAGT	TTTAATTCCA	ACAAACCGAA	TGTAGGTGAC	1800
GAAAAAGAGA	TTGACTTTAA	GTTTGCACCT	GACACAGACA	AAGAACTCTA	TAAAGAAGAT	1860
ATCATCGTTC	CAGCAGGATC	TACATCTTGG	GGGCCAAGAA	TAGATTTACT	TTTAAAACCC	1920
GATGTTTCAG	CACCTGGTAA	Aaatattaaa	TCCACGCTTA	ATGTTATTAA	TGGCAAATCA	1980
ACTTATGGCT	ATATGTCAGG	AACTAGTATG	GCGACTCCAA	TCGTGGCAGC	TTCTACTGTT	2040
TTGATTAGAC	CGAAATTAAA	GGAAATGCTT	GAAAGACCTG	TATTGAAAAA	TCTTAAGGGA	2100
GATGACAAAA	TAGATCTTAC	AAGTCTTACA	AAAATTGCCC	TACAAAATAC	TGCGCGACCT.	2160
ATGATGGATG	CAACTTCTTG	GAAAGAAAAA	AGTCAATACT	TTGCATCACC	TAGACAACAG	2220
GGAGCAGGCC	TAATTAATGT	GGCCAATGCT	TTGAGAAATG	AAGTTGTAGC	AACTTTCAAA	2280
AACACTGATT	CTAAAGGTTT	GGTAAACTCA	TATGGTTCCA	TTTCTCTTAA	AGAAATAAAA	2340
GGTGATAAAA	AATACTTTAC	AATCAAGCTT	CACAATACAT	CAAACAGACC	TTTGACTTTT	2400
AAAGTTTCAG	CATCAGCGAT	AACTACAGAT	TCTCTAACTG	ACAGATTAAA	ACTTGATGAA	2460
ACATATAAAG	ATGAAAAATC	TCCAGATGGT	AAGCAAATTG	TTCCAGAAAT	TCACCCAGAA	2520
AAAGTCAAAG	GAGCAAATAT	CACATTTGAG	CATGATACTT	TCACTATAGG	CGCAAATTCT	2580
AGCTTTGATT	TGAATGCGGT	TATAAATGTT	GGAGAGGCCA	AAAACAAAAA	TAAATTTGTA	2640
GAATCATTTA	TTCATTTTGA	GTCAGTGGAA	GCGATGGAAG	CTCTAAACTC	CAGCGGGAAG	2700
AAAATAAACT	TCCAACCTTC	TTTGTCGATG	CCTCTAATGG	GATTTGCTGG	GAATTGGAAC	2760
CACGAACCAA	TCCTTGATAA	ATGGGCTTGG	GAAGAAGGGT	CAAGATCAAA	AACACTGGGA	2820
GGTTATGATG	ATGATGGTAA	ACCGAAAATT	CCAGGAACCT	TAAATAAGGG	AATTGGTGGA	2880
GAACATGGTA	TAGATAAATT	TAATCCAGCA	GGAGTTATAC	AAAATAGAAA	AGATAAAAAT	2940
ACAACATCCC	TGGATCAAAA	TCCAGAATTA	TTTGCTTTCA	ATAACGAAGG	GATCAACGCT	3000
CCATCATCAA	GTGGTTCTAA	GATTGCTAAC	ATTTATCCTT	TAGATTCAAA	TGGAAATCCT	3060
CAAGATGCTC	AACTTGAAAG	AGGATTAACA	CCTTCTCCAC	TTGTATTAAG	AAGTGCAGAA	3120
GAAGGATTGA	TT					3132

# (2) INFORMATION FOR SEQ ID NO: 111:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 14672 base pairs

PCT/US97/19588 WO 98/18931

806

(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 111:

CGAGATTTCT	TTAAATGAAC	TACGTGAAAT	CTACCCATCA	TCCAGATCTG	GATATTCTCT	60
ССТАТСТАТА	AGTAAAGTTT	TAGGAGATTT	TAATATAAGT	TCTCATGCTT	TTAAAGCTTC	120
GGTAAGAGAT	TTAAAACCGC	TCAGTTTCCC	ACTCATTTGC	TTCTGGGAGA	GTTCTCATTT	180
TATTATTCTT	GAAAAAATTA	GTAAAAACAA	GTTTTATATT	TTAGATCCTG	CAAAAGGCAG	240
GCAGAGAATG	TCAATAAGTG	AATTTGAAAG	GCATTATTCA	AATATCATTT	TAACATTTAA	300
AAAGTTAGAT	AGCTTTATGT	CTCGTAAAGA	TAATAAGAAG	TCGCCTGTTT	TAAAGTATTT	360
TTTTAAGTAT	AGGAATAAGC	TAGGGATTTT	ATTTTTTGTA	ACAGCATTAT	TGTATGTAAT	420
ACAATCATTA	GTACCTATAG	CTAATAGATA	CATAATTGAC	ACGAATTTCA	AGGACGATTC	480
GTATTCGTCT	AGAATGTTAT	TTACTATATT	ATTTATATTT	ACTGTTTCAT	TCTCACTAAT	540
GTATTTATTA	AGACAGATAT	ATGTTGCATC	CTTAAAATAT	ATAATGGATA	AAGAGATTAG	600
CTATGATTTT	ATGAAACATT	TGATATATTT	ACCTTACAGT	TTTTATGAAA	AACGTACTTT	660
AGGGGATATA	CTTTTTAGAG	СТААСТСТАТ	TGTTTATATA	AGAGAAATAC	TATCAAATAA	720
TTTTATAGCA	GCTATACTTG	ATTTGTTAAT	GATTGTGGTT	TATGCTGTGG	TTTTATTTAG	780
CTTTTCTAAG	TACATGGTAA	TCTTTTTAAT	ATCACTAAGT	CTAGCTCTAT	CTATTGTAAT	840
GTATCCAATC	ATAAAAATCT	CAAAAATTT	AATTGATAAA	AATATAAAAG	AAAAGGTTAA	900
TGTTCAAAAT	ATTACTTCCG	AAGTAATTTC	TAAAAATAGT	GATATTAAGC	TAACTGGAGA	960
AGAGGAATTT	TGGATTAACA	AATGGGATAA	TTTTAATACA	AAACAGCTCA	TCATAGGTCG	1020
AAAACTTGAT	ATACATTTAT	CAATTGTTAG	TAGTATAACG	AATGTTTTAC	AAATTATTCT	1080
CCCTGTTTTG	ACCCTTATTG	TAGGTGTAAA	татаааааса	TTCGAACAAT	TGACGTTAGG	1140
ACAAATTGTA	GCAATAAGTA	CAGTCTCACC	ATACTTTATT	тстсстатаа	TTTCTTTAAG	1200
TGATAACTAT	ATACAATTAA	TGTTATTAAA	GGGATATTTT	TTAAGAATAG	AGGATGTGTT	1260
ТААТАСТААА	TCCGAATTAA	TTCCAGAAAG	AGTCAGTCAA	GATATAAAAT	TTGATAAAAA	1320
AATAGAATTA	AAAGATATTT	GGTATAAATA	TGGATTATTT	GATGATTATG	TTTTGAAAGG	1380
Aataaatgtt	ACTATTAAAA	AAGGAGAAAC	TGTTGCTATT	GTTGGAGAAT	CAGGTTCAGG	1440
TAAGAGTACA	TTAGCTAAAA	TTTTATTAGG	TTTATTAGAA	CCTAATATTG	GTTCAATAGA	1500
agttgatgga	GTAGAAAAAG	aagaaattgg	TCAAACATTG	TATAGAAAGA	TTTTTGGAGC	1560

AGTGTTACAA	AATTCAACCC	TAAGTTATGG	TACCTTAAGA	GAGAATTTGA	CATTTGGACA	1620
CTTTGTTTCA	GATGAAGAAT	TAATGACAAA	TCTAAATTCA	ATTGGTCTTA	GCAATGTAGT	1680
TAAATCTTTA	CCTCTTGGAT	TAGAGACAAT	CATCGCTGAA	GAAGGTAATA	ACTTTTCTGG	1740
AGGGCAGCAG	CAAATGATAC	TTTTAGCTCG	TTGTCTTTTG	TCGAAACCTT	CGGTAGTTGT	1800
TTTGGACGAA	GCAACAAGTA	GTTTAGATAA	TTTATCTCAA	CAAATTACAA	CTTCTTACTT	1860
AAGTGAAATC	GGTACCACTA	AGATTTTAAT	TGCCCATCGA	CTAGATACTA	TCAAGTCTGC	1920
AGATAAGATC	TTAGTAATGC	ATAATGGTGA	AATTGTAGAG	ATTGGGACCC	ATAGAGAACT	1980
TCTTGAACTA	GGAGGCATTT	ATAAGCAATT	GTATTCAAAT	AATTAGTTTT	TGATTAAAAG	2040
GGTAAATTTA	TGAAGATTAT	GAAAAAAAA	TATTGGACTT	TAGCGATATT	ATTCTTTTGT	2100
TTGTTCAATA	ATTCTGTTAC	TGCTCAAGAA	АТАССТАААА	ATCTTGATGG	СААТАТААСТ	2160
CACACTCAGA	CTAGCGAAAG	TTTTTCTGAA	TCTGATGAAA	AACAGGTTGA	CTATTCTAAT	2220
AAAAATCAAG	AAGAAGTAGA	CCAAAATAAA	TTTCGTATTC	AAATCGATAA	GACAGAATTA	2280
TTTGTAACAA	CAGATAAACA	TTTAGAAAAA	AACTGTTGTA	AATTGGAACT	TGAACCACAA	2340
ATAAATAACG	ATATTGTTAA	CTCTGAAAGT	AATAATTTAC	TAGGCGAAGA	TAATTTAGAT	2400
AATAAAATTA	AGGAAAATGT	TTCTCATCTA	GATAATAGAG	GAGGAAATAT	AGAGCATGAC	2460
AAAGATAACT	TAGAATCGTC	GATTGTAAGA	AAATATGAAT	GGGATATAGA	TAAAGTTACT	2520
GGTGGAGGCG	AAAGTTATAA	ATTATATTCT	AAAAGTAATT	CTAAAGTTTC	AATTGCTATT	2580
TTAGATTCAG	GAGTCGATTT	ACAAAATACT	GGATTACTGA	AAAATCTTTC	AAATCACTCA	2640
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TCAGATATTC	AAGATAGATT	AGGTCATGGT	ACGGCTGTTG	TAGCTCAAAT	TGTAGGGGAT	2760
GACAATATTA	ATGGAGTAAA	TCCTCACGTT	AATATTAACG	TCTATAGAAT	ATTTGGTAAG	2820
TCGTCAGCTA	GTCCAGATTG	GATTGTAAAA	GCAATTTTTG	ATGCTGTAGA	TGATGGCAAT	2880
GATATTATCA	ATCTTAGTAC	TGGACAATAT	TTAATGATTG	ATGGAGAATA	TGAGGACGGA	2940
ACAAATGATT	TTGAAACATT	TTTGAAGTAT	AAAAAGGCTA	TTGATTACGC	GAATCAAAAA	3000
GGAGTAATTA	TAGTAGCTGC	ATTAGGGAAT	GACTCCCTAA	ATGTATCAAA	TCAGTCAGAT	3060
TTATTGAAAC	TTATTAGTTC	ACGCAAAAAA	GTAAGAAAAC	CAGGATTAGT	AGTTGATGTT	3120
CCAAGTTATT	TCTCATCTAC	AATTTCGGTC	GGAGGCATAG	ATCGCTTAGG	TAATTTATCA	3180
GATTTTAGCA	ATAAAGGGGA	TTCTGATGCA	ATATATGCGC	CTGCAGGCTC	AACATTATCT	3240
CTTTCAGAAT	TAGGACTTAA	TAACTTTATT	AATGCAGAAA	AATATAAAGA	AGATTGGATT	3300

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TATATGTTTG	ТААААААТТ	CTGGAAGAAA	CATTACCAGT	AAAAAATGGT	ATAAAAGTGT	3480
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AACAAAGTTG	GGATAGTTTC	ATAGATAATG	TTAATTTAAT	TGAGTTGGAA	GAGAGAATTC	3600
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GTAAATGAAA	ATAAAATTTG	GAGCCCTCTG	AAAAAGTAAG	TCCTACAGTT	СААСТААААТ	3840
GAGTCAAAAG	ATGAATCACC	TTGATGTAGG	GGAGTTTGTC	TTATTGCTGC	CTGAACACCT	3900
CCGTTCAGAG	GAAGAACATT	ATAAATCTGT	TTTTGAAGAC	GACTTAACCA	GTCGCATATC	3960
TAGTCAAGAT	GAACGACAGC	AAATGACTGC	TACGGTAGGT	TATTTAGAAT	CAGGTCAGGA	4020
TCGTTTTGTG	TATAATACGA	CCCCTATTTC	TTACCAGCAG	TTTTTGAAAG	ATCCAATCAT	4080
CATTGTTATA	ACACCCCAAT	CAACTGGTCC	ACAGTCCATT	TTGTTTTGGA	TAGACGCAGT	4140
ACAGAACTAC	GTTCTCTTTA	ATCAATTGTC	TGATGCCCAG	GAGCTTATCC	AGAGACAAGG	4200
CATTGAAAAT	TGGGTCTCAG	AAATGCAAAC	AGGTTACCAC	AACTACATCA	CATTATTGGA	4260
TAATATCCAG	AGGGAACGTT	GGGTAATGCT	AGCAGGAGCT	GTGCTTGGGA	TTGCAACTTC	4320
AATCTTGTTG	TTTAACACTA	TGAATAGGCT	CTACTTTGAA	GAATTTAGAC	GTGCCATTTT	4380
TATCAAACGC	ATTGCAGGTC	TCAGGTTCTT	AGAAATCCAT	CGCACTTATC	TCTTTGCTCA	4440
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GCAGAAAGAA	AACAAGATGT	CCATGCTTGT	TTTGAAGGGA	GGTTAATATG	ATTGAACTTA	4620
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AGGCTGGAAA	AGTCTATGCC	TTAATTGGTT	CAAGTGGTAG	CGGAAAAACA	ACCTTGATGA	4740
ACATGATTGG	GAAATTAGAA	CCTTATGATG	GGACGATTTT	TTACCGAGGT	AAAGACTTGG	4800
CCAATTATAA	ATCAAGTGAT	TTTTTCCGTC	ACGAATTGGG	CTACCTCTTC	CAGAACTTTG	4860
GCTTAATTGA	AAACCAAAGT	ATTGAAGAAA	ACCTTAAGCT	AGGTCTCATT	GGTCÄAAAGT	4920
TGAGTCGGTC	GGAACAGCGG	TTGAGGCAGA	AGCAGGCTTT	AGAACAGGTC	GCCTGGTTT	4980
ATCTTGACCT	AGATAAGCGC	ATCTTTGAGT	TATCGGGCGG	AGAATCGCAA	CGGGTTGCCT	5040
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GGCTAATCAT	TATCGCAACA	CATAATCCGG	CAATTTGGGA	GATGGCTGAT	GAAGTGTTCA	5220
CGATGGATCA	TCTGAAATAA	AAATCCTTGT	TTTTAATTGC	ACGATGAGTT	ACTGAAATAT	5280
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TTAATATTGA	GGTAACTTTT	TCTTGATAAA	GGAAGAAATA	ATGGAGAGGA	AGTTAGAATG	5400
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CTATGGTAAA	AAAGTAGCTT	TGAAAACGTA	TTGCCTCCAA	AGATTTAGTT	AAATAATGAT	5760
TTAACACAAA	AAGAAATTAT	TGAAGTTCTG	GAAAGATGTT	GTTTCAGTAT	TGAGAAAAGG	5820
TGGGAAAAAC	TTGCGATTTT	CACAGAGAAA	GGAAGAAAA	GTATAGAAAT	ATAGTCAATT	5880
GAAACAAGAA	CAGGATAAAA	GAACCTTTTG	TGCCATATTT	TTCTCCTTTC	GCTTTACAAT	5940
TGGATTGAAC	ACCTTTATTG	TATCGCGTTT	GGAGTTTTTT	TGGTATAACC	TTCGACGCAC	6000
ACCCGCATAG	CGGGTGTTTT	TTTTGTCTCG	CACCTAACGG	AGCGAGACAA	ACTAATAGTC	6060
АСТТААТСАА	AAAACGCACC	АТАТСААААА	CTAAAAAGTT	TGATATCATG	CGTCATGTCT	6120
ТАААСТААТТ	GACTATACTT	TCTATTCAAA	TGAGCTTTTA	ACCAATTGAT	TGAGCCAATC	6180
САСТСТТААА	ACCAAAGAGC	AATTTCTCGC	TTAGCTGACT	CTTCTGAATC	TGAACCATGT	6240
ACAACATTTT	GGATAATCTC	ATTTTCTCCA	GCAGCTTTTG	CAAAATCACC	TCGAATAGTG	6300
CCTGGTAAAG	CTTCTTCTGG	ACGAGTTGCA	CCCATCATGG	TCCGCCAAGT	TTCGATTACT	6360
TTGGGACCAG	AAATGACACC	CACAAGAACT	GGACCTGAAG	TCATGAATTC	ACGAATCGGT	6420
GGGTAAAAAC	TCTGACCAAC	CAAGTCCTGA	TAGTGCTGGT	CAATCAACTC	TTCTGAAACC	6480
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TCACCCACTA	GCCCTCTTTT	TACACCATCT	GGTTTGATGA	TAAAGAATGT	TTGTTCCATA	6600
CCCGTCTCCT	TTGTCAGCTT	CTTTCTTTTA	TTTTACCACA	TTTCGTGGAA	AAATGGAGAA	6660
AGTTTTCAGA	AGAGAGAATG	AGAGAACCCT	CGGGTTCTCT	CATTCTCTCT	TATTCTACTG	6720
тттсттссас	AGTTTCAACG	GCAGTATCCA	CAACTACTTC	TGTTGTTTCT	TCATTTCCTT	6780
CTTCCTCTAC	TGGAGGATTA	AGGTATTCTT	CTTCGTTGAC	AGCATGTGGT	TCAAGGTTAC	6840

			910			
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STCCAAGGAG	ATGGTCTTTC	TTACCACGGA	TAGCTGCGTC	AGTAAGGACA	CGAGTTGTTT	6960
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TAAGGACTGG	GCGACCTGTC	GCTGGAACTC	CACCTGCGAT	AAGGACATCT	TTGTTGGCAT	7080
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CACGCGCTAC	TTGGCCCCCA	ACTTCGACAC	GCATACGAGC	TGTAAATGGA	ACGACATATT	7380
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CACCTGTGTG	GAAGGTACGC	ATTGTAAGCT	GTGTACCAGG	TTCCCCGATA	GATTGGGCAG	7620
CGATTGTACC	AACTGCTTCA	CCAACTTCAA	CCGCATCACC	AGTCGCCAAG	TTGATACCGT	7680
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SACGCTCTTC	GAGAGACTCG	ATCATCTCTT	TTCCTTCTGC	GATAGAACGG	ATCAAGAGAC	7920
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GACGAGTCAA	GTAACCTGAG	TCGGCTGTCT	TAAGGCCCGT	ATCGGTCATA	CCTTTACGAG	8040
CACCGTGAGT	TGAGAAGAAC	ATTTCCAATA	CCGACAAACC	TTCGCGGAAG	TTTGAAAGGA	8100
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STGAGAAGTT	TGAGATGTTA	CCACGGGCTC	CAGAGTCCAT	CATCATAACG	ATTGGGTTCT	8220
AGGATCTTG	GTTAGCAATC	AAGCGTTTCT	CAAGTTTTTC	ACGGGCAGCA	CGCCATTCAG	8280
TGTAACAGC	ATTGTAACGC	TCGTCGTCTG	TGATCATACC	ACGACGGAAT	TGTTTGGTGA	8340
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ATCGGCAAT	ACCCACTGTC	AATCCTGCAA	GAGTTGAGTG	GTGGTAACCG	AGGTTCTTCA	8460
GCGGTCAAG	TAGGGCAGAA	GTTTCTGTCG	TACGGAAACG	TTTGAAGATT	TCAGCGATGA	8520
ATTTCCAAG	GTTTTTCTTC	TTGAATGGAG	GGTTGAGCTC	AAGATTGCTG	ATAGCTTCCT	8580
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CTTCGTCACG	GTCTTTGAAG	ACCATTCCTT	CACCTTCGCG	ACCAGCTTCT	TCCATGGTCA	8880
AGTAGTAGTT	ACCCAAAACC	ATGTCCTGAG	ATGGAGTAAC	TACCGGTTTC	CCATCTTTCG	8940
GGTTCAAGAT	GTGCTCAGCA	GCTAGCATGA	GGATACGAGC	TTCTGCTTGT	GCTTCTTCTG	9000
AAAGTGGTAC	GTGGATGGCC	ATTTGGTCCC	CGTCAAAGTC	AGCATTGTAG	GCTTCACAGA	9060
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CCAAACGGTG	AAGGGTCGGT	GCGCGGTTCA	AAAGCACTGG	GTGTTCTTTA	ATCACTTCTT	9180
CAAGGATATC	CCAGATACGC	TCATCTCCGC	GTTCCACCAA	GCGTTTAGCT	GCTTTGACGT	9240
TTTGCACGAT	ATCACGGGCA	ACGATTTCAC	GCATGACAAA	TGGTTTAAAG	AGTTCAATCG	9300
CCATTTCACG	CGGCACACCA	CATTGGTACA	TCTTAAGAGT	TGGACCAACG	GCGATAACTG	9360
AACGTCCTGA	GAAGTCAACA	CCTTTACCGA	GCAAGTTTTG	ACGGAAGCGT	CCTTGTTTAC	9420
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CACGACGACC	ATTGTCAATC	AAAGCGTCAA	CTGCTTCTTG	AAGCATACGC	TTCTCATTTT	9540
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			812			
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GTCAAGACCA	AGAGATTGCA	ATTCTTTGAC	AAGAACTCGG	AAGGATTCTG	GAACACCTGG	1068
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CAAGCGTTCG	CTCATGATAA	CGGCATCCTC	GAAGTTGTAA	CCTTCCCAAG	TCATGTAGGC	11760
AACGATTGGG	TTTTGTCCAA	GCGCCATTTC	TCCATTTTCC	ATAGAAGGTC	CGTCAGCGAT	11820
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ACCTGAGTTT	GAACGACGGA	ATTTTTGGAT	GTGGTAAACA	TCCAATGAAC	CATCTTCACG	11940
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AGGATTAATC	AATGGCACAG	CCTGACGTTG	CATATTGGCT	CCCATGAGGG	CACGGTTGGA	12120
STCATCGTTT	TCCAAGAAAG	GAATACATGC	TGTCGCAACG	GCAACTACCT	GTTTTGGTGA	12180

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ACGAGTCATA	ATCGTACCAG	CTTCTACCAA	GATTTCTCCA	GTTTCAGGGT	CTACCAATGG	13140
CTCTGCAATG	GTTTGGTTGA	GCAAACGTGT	TTTAACATTG	AGTTTTTTAT	TGATTTTGTA	13200
ACGACCAACT	GCTGCCAAGT	CATAACGACG	TGGGTCAAAG	AAGCGAGCTA	CAAGCAAGCT	13260
ACGTGAGCTT	TCAGCCGTCT	TAGGCTCACC	TGGACGAAGG	CGTTCGTAAA	TTTCTTTCAA	13320
GGCTTCGTCT	GTACGAGAGT	CCATTGGATT	CTTGTGGATA	TCTTTTTCAA	CAGTGTTGCG	13380
AACCAATTCG	CTGTCACCAA	AGATATCAAA	GATTTCATCA	TCACCTGAGA	AACCAAGAGC	13440
ACGAACCAAG	GTTGTAAATG	GAATCTTACG	AGTACGGTCG	ATACGAGTGT	AGGTGATATC	13500
TTTTGAGTCG	CTTTCAAGTT	CCAACCAAGC	TCCACGGTTA	GGGATAACAG	TTGAACCATA	13560
GCCCACCTTA	CCATTTTTGT	CTACTTTGTC	GTTAAAGTAA	ACACCTGGTG	AGCGGACCAA	13620
CTGAGAAACG	ATAATACGTT	CACCACCATT	GATGATGAAA	GTACCCATTT	CTGTCATGAT	13680
TGGGAAATCA	CCAAAGAAAA	CTTCTTGGGT	CTTGATTTCG	CTTGTTTCTT	TATTGATCAA	13740
ACGGAAGGTT	ACAAAAATTG	GTGCTGAGTA	GCTAGCATCG	TGGATACGAG	CTTCTTCTAG	13800
CGTATATTTT	GGTTCCTTGA	TTTCATATCC	AACAAATTCC	AACTCCATTG	TGTCTGTGAA	13860
GTTTGAAATT	GGCAATACAT	CTTCAAACAC	TTCCTTAAGA	CCGTGGTCTA	GGAAAGCTTT	13920

			814			
GAATGAGTCA	GTTTGAATTT	CAATCAAATT	TGGTAAGTCA	AGAACTTCTT	TGATTCTTGA	13980
AAAACTACGA	CGGGTACGAT	GTTTCCCGTA	TTGAACGTCA	TGTCCTGCCA	AGATGATTCT	14040
CCTTTGTAAA	TAAGTTCCAA	GCCTTGTCAA	TCAGGCTTTT	CTAATCGTCA	TATGGTTGTA	14100
AACCCCTTAT	CACCGTGTCC	TCTTGACGAA	TTTTCAGAAT	CTTTAAGCCT	CTGTTACAAA	14160
TGCTCAAAAT	CTTGAAAAAA	AGCACAAAAA	GAGCAGCTAA	ATCTGACTTT	TTCAGAAGAT	14220
TTAACTGCTG	TGAGCCTTGT	CTGGACAATA	TTTCAGACAA	AACCTACGAC	AAATGATTAC	14280
CCATATTATA	CCCTATTTAG	CTAGATTTTT	CAAGGGGTTT	CAGTAGGTTT	TTGGTAAATT	14340
TTTTCCCATA	GAAAACTTGG	CATCACATTC	GAATCACGCT	ATGGTACAAA	AAACTGAAAA	14400
AACTATTGAC	TGAAAATCAT	TTTCAAGGTA	ТААТААТААА	CGTTAAGGCG	GTATAGCCAA	14460
GTGGTAAGGC	ACGGCTCTGC	AAAAGCTTGA	TCGTCGGTTC	AAATCCGTCT	ACCGCCTTCT	14520
ATAACTTGAT	TTATCAGGTT	TCAAATGAAC	AGAAAGCCCA	ATTTGAAGGG	CTTTTTTTAT	14580
TTTCCCTCGA	ATAAATACGT	АТААСТТТАА	AAACTTTTGG	AGCGAGTTTG	TGGCAGAGTT	14640
CTTTCCATGG	CATAATTCCC	TTTTGAAATC	AG			14672
(2) INFORMA	ATION FOR SE	Q ID NO: 11	12:			
(	EQUENCE CHAR (A) LENGTH: (B) TYPE: nu (C) STRANDEL (D) TOPOLOGY	7902 base pacleic acid NESS: doubl	pairs			

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 112:

AGGAGACTAT	TCAAGCCCAA	ATTGAGTAGC	CCAGCAAAGA	CTGTATAGAC	TGTGATACGT	60
TTTTCATAGC	CATTGGTAAA	GAGAATTTGG	GAACCAAGAA	TGGTATCTAA	GGCCAGGATA	120
ATCGTACGAA	AAGCGAAGAG	AGAGGTCAAG	ATGCCGCCTC	CGATATATTT	TTCACTACCG	180
TAAAGTAGGA	TGGCATTTGG	TCCTAAAACC	ATGAGTCCAA	AACTCAGTGG	AATGATAAAG	240
AAGTTAAAGA	TTCGACTACC	TCTATTAACC	AGAGAAACAT	AGGCTTCTTT	GTCTCCTTTC	300
CCCAGATAGT	AACTGAGACG	AGGCACACTC	ACTCCAATTG	CACCTGTTAC	AACCCCAGCT	360
ATAACGGTCA	CAATTCGCTG	AGCTATGGTA	TAGTAACTAA	CGTTGACATC	AATCCCTGTT	420
TTAACGAGGA	AGAGGCGATC	TAAAAAAGTG	AAGAGCATAT	TGGCATTGGC	AAAGACTAAC	480
ATGGCTGTCA	GAGGGAGAAA	GAGTGGTTTA	AAATCACTTA	GGTGAATTTT	AACAAGTTTG	540
ATGTCTCTTT	TAATCCAAAA	ATAACTAATC	AGGTAGTTAA	TCAGCGTCGA	TAAACTCATC	600
ACAAGTGTAT	AGACAACAAT	ATCGTGTTCA	TTTTTAACAA	ATAAGAAAAT	AGAGACCAGC	660

ATCAGGATAC	GGATGAAGGC	AGTTTTGTAA	AAGAGAAAAC	TGTAATTTTC	CAGAGCTTCA	720
PTGACCCATT	CGATTGAAAA	AATCTGGGCA	atgagttgaa	TCCCCATAAC	AAGGTAGACC	780
PTTTTGACGA	TTGGATTATC	AGTAAAGAAG	AGAGGATAGG	CTAGGATATA	GACAGCAGTG	840
GTCAAAATCG	TACAAGCGAT	GCACAAATAA	AAAAGACTAG	AAAAGGTTCT	GTTAAGATCT	900
PTTTTGTTAT	CCTTGACATT	ACTGATAGCC	CTTAAACCGT	AGTTATAGAC	ACCATAAGTT	960
GCAAAGGGCA	agaaaaatga	CAAAATAGTG	TCGACTGAGT	TGAAGTAACC	ATACTCACTT	1020
CGGTCCAAGA	CACGCGCGAC	ATAGGTTCCA	GTTAGGATGG	GAAAAATAAT	ATTCAAGACA	1080
CGAATTCCCA	TGTAAGATAG	AGCATTTAAT	TTTATACTTT	TCATTCAATT	TACCTCGTTT	1140
PTCATTATAT	CATAAAGTTA	GCTAATAAGA	AATGAAGGGC	AGTAAGTCAA	GTAATCACTT	1200
rgaagtttca	AATCTTAAGT	TTTAAGTTTT	CTTTAAGGAA	AGTATATTAT	TCTGAAGGAC	1260
TTTAAAATTT	CGCAGCCATT	TATTAGTAAT	TGCTACAGAA	TTCCTAGTCA	TTACTAGAAA	1320
rggactagtt	TCTTTGAATA	ATAGAACTGC	ATAATTCTCC	TATTCTAGAA	GGGGAGGACC	1380
AGTATTTCTT	TTATGATAGG	ACTAGATTGT	GGTATAATAG	AGAGAATAAG	TTTTTTTAGT	1440
AAGACAAAGG	agaaaataga	TGATTTATGC	AGGAATTCTT	GCCGGTGGAA	CTGGCACACG	1500
CATGGGGATC	AGTAACTTGC	CAAAACAATT	TTTAGAGCTA	GGTGATCGAC	CTATTTTGAT	1560
PCATACAATT	GAAAAATTTG	TCTTGGAGCC	AAGTATTGAA	AAAATTGTAG	TTGGTGTTCA	1620
rggagactgg	GTTTCTCATG	CAGAAGATCT	TGTAGATAAA	TATCTTCCTC	TTTATAAGGA	1680
ACGTATCATC	ATTACAAAGG	GTGGTGCTGA	CCGCAATACA	AGTATTAAGA	ACATCATTGA	1740
AGCCATTGAT	GCTTATCGTC	CGCTTACTCC	AGAGGATATC	GTTGTTACCC	ACGATTCTGT	1800
PCGTCCATTT	ATTACACTTC	GCATGATTCA	GGACAATATC	CAACTTGCCC	AAAATCATGA	1860
CGCAGTGGAC	ACAGTGGTAG	AAGCGGTTGA	TACTATCGTT	GAAAGTACCA	ATGGTCAATT	1920
PATTACAGAT	ATTCCAAATC	GTGCTCACCT	TTATCAAGGA	CAAACACCTC	AAACATTCCG	1980
PTGCAAGGAC	TTCATGGACC	TTTATGGATC	TCTTTCTGAT	GAAGAGAAGG	AAATCTTGAC	2040
AGATGCATGT	AAAATCTTTG	TGATCAAAGG	AAAAGATGTG	GCTTTGGCCA	AAGGTGAATA	2100
CTCAAATCTG	AAGATTACAA	CCGTAACAGA	TTTGAAGATT	GCAAAAAGTA	TGATTGAGAA	2160
AGACTAGTAA	AATGATTAAT	CAAATTTATC	AACTAACTAA	GCCTAAGTTT	ATCAATGTCA	2220
AATATCAGGA	AGAGGCTATT	GACCAAGAGA	ATCATATCCT	TATCCGTCCC	AACTACATGG	2280
CTGTCTGTCA	TGCGGATCAG	CGTTACTATC	AGGGAAAACG	TGATCCCAAG	ATTTTGAATA	2340
224723644	ΔΑΨΟΘΟΆΑΨΟ	ልጥጥሮልርናያልርጥ	САТСТССААС	ССТСАПТТСТ	GACCCGACCG	2400

			816			
GAACCTACGA	GGTTGGTCAA	AAAGTTGTCA	TGATTCCCAA	TCAGTCTCCT	ATGCAGAGTG	2460
ATGAAGAATT	CTATGAAAAC	TACATGACAG	GGACCCATTT	CTTGTCTAGT	GGATTTGATG	252
GCTTTATGAG	AGAGTTTGTT	TCTCTCCCTA	AAGATCGTGT	GGTGGCTTAT	GATGCTATTG	2586
AAGATACGGT	TGCAGCCATT	ACAGAGTTTG	TCAGTGTGGG	CATGCACGCT	ATGAATCGTC	264
TATTGACTCT	TGCTCATAGC	AAGCGGGAGC	GGATCGCCGT	TATTGGAGAT	GGAAGTTTAG	270
CTTTTGTGGT	TGCCAATATT	ATCAACTATA	CTTTGCCAGA	AGCAGAGATT	GTGGTTATTG	2760
GTCGTCATTG	GGAAAAGTTG	GAACTCTTCT	CATTTGCCAA	AGAATGCTAT	ATTACCGATA	2820
ATATTCCTGA	AGATTTGGCC	TTTGACCATG	CTTTTGAATG	TTGTGGTGGT	GATGGTACTG	2880
GACCAGCTAT	TAATGACTTG	ATTCGCTACA	TTCGTCCTCA	GGGAACGATT	CTCATGATGG	2940
GAGTTAGCGA	ATATAAAGTC	AATCTCAATA	CTCGCGATGC	CTTAGAAAAG	GGCTTGATTT	3000
TGGTTGGGTC	ATCTCGTTCT	GGTCGCATTG	ATTTTGAAAA	TGCTATCCAA	ATGATGGAAG	3060
TCAAGAAATT	TGCCAATCGT	СТТАААААТА	TCCTTTATCT	AGAAGAACCT	GTAAGAGAAA	3120
<b>PTAAAGATA</b> T	TCATCGTGTC	TTTGCAACCG	ATTTAAACAC	AGCCTTTAAA	ACAGTGTTTA	3180
agtgggaagt	ATAAGTACTG	GAGGTTAATT	GTGGAGAAAA	TCATTAAAGA	AAAAATTTCT	3240
FCCTTACTTA	GTCAAGAAGA	GGAAGTCCTC	AGTGTTGAAC	AACTGGGTGG	AATGACCAAT	3300
CAAAACTATT	TGGCCAAAAC	AACAAATAAG	CAATACATTG	TTAAATTCTT	TGGTAAAGGG	3360
ACAGAAAAGC	TTATCAATCG	ACAAGATGAA	AAGTACAATC	TTGAACTACT	AAAGGATTTA	3420
GGCTTAGATG	ТАААААТТА	TCTTTTTGAT	ATTGAAGCTG	GTATCAAAGT	AAATGAGTAT	3480
ATCGAATCTG	CGATTACGCT	TGATTCAACG	TCAATCAAGA	CCAAGTTCGA	CAAAATTACT	3540
CCAATATTAC	AAACTATTCA	TACGTCTGCT	AAGGAATTAA	GAGGAGAATT	TGCTCCTTTT	3600
GAAGAAATCA	AAAAATACGA	ATCCTTGATT	GAAGAACAAA	TTCCTTATGC	CAACTATGAA	3660
PCTGTTAGAA	ATGCAGTCTT	CTCCTTAGAG	AAAAGACTGG	CTGACTTAGG	TGTTGACAGA	3720
AAATCTTGTC	ATATCGATTT	GGTGCCTGAA	AACTTTATCG	AATCACCTCA	AGGACGACTT	3780
PATTTGATTG	ACTGGGAATA	TTCATCAATG	AATGATCCAA	TGTGGGATTT	GGCTGCCCTC	3840
PTTTTAGAGT	CTGAATTCAC	TTCCCAAGAG	GAAGAAACTT	TCTTATCTCA	CTATGAGAGT	3900
GACCAAACAC	CGGTTTCTCA	TGAAAAGATT	GCTATTTATA	AAATTTTACA	AGATACTATT	3960
rggagtctat	GGACTGTCTA	TAAGGAAGAG	CAAGGTGAAG	ATTTTGGTGA	CTATGGTGTG	4020
AATCGTTACC	AAAGAGCTAT	TAAAGGTTTG	GCTTCTTATG	GAGGTTCAGA	TGAAAAGTAA	4080
AAACGGAGTT	CCTTTTGGCC	TTCTCTCAGG	TATTTTCTGG	GGCTTGGGTC	TAACGGTTAG	4140
IGCTTATATC	TTTTCGATTT	TTACAGATTT	GTCACCCTTT	GTGGTGGCTG	CAACTCATGA	4200

TTTTTTGAG	C ATCTTTATCT	TACTAGCTTT	TCTCTTGGTA	AAAGAAGGGA	AAGTTCGCCT	4260
CTCAATTTT	C TTAAATATTC	GCAATGTCAG	TGTTATCATC	GGAGCCTTGC	TAGCAGGCCC	4320
TATCGGTAT	G CAGGCCAATC	TTTATGCAGT	TAAGTATATC	GGAAGTTCTT	TAGCTTCATC	4380
TGTATCGGC	т атттассстс	CGATTTCAGT	TCTATTGGCT	TTCTTCTTTT	TGAAGCACAA	4440
GATTTCGAA	A AATACTGTAT	TTGGGATTGT	CTTGATTATT	GGAGGGATTA	TTGCTCAGAC	4500
CTATAAGGT	T GAACAGGTTA	ATTCTTTCTA	CATTGGGATT	CTTTGTGCTT	TGGTTTGTGC	4560
TATTGCATG	G GGAAGTGAGA	GTGTTCTTAG	CTCTTTTGCC	ATGGAAAGTG	AATTGAGTGA	4620
AATCGAAGC	C CTCTTAATCC	GTCAAGTAAC	TTCGTTCTTG	TCCTATCTTG	TGATTGTGCT	4680
CTTCTCTCA	T CAGTCATTTA	CTGCAGTAGC	CAATGGACAA	TTGCTAGGTC	TCATGATTGT	4740
TTTTGCAGC	C TTTGATATGA	TTTCCTACTT	GGCTTATTAT	ATCGCTATCA	ATCGCTTGCA	4800
ACCAGCCAA	G GCTACAGGCT	TGAACGTGAG	CTATGTAGTA	TGGACGGTCT	TGTTTGCAGT	4860
<b>TGTTTTCTT</b>	G GGTGCACCGC	TAGATATGCT	GACCATTATG	ACGTCACTTG	TCGTCATTGC	4920
TGGAGTTTA	т аттаттатта	AAGAATAAAG	GAGATTCGTG	TGAAAGCCAT	TATCTTAGCA	4980
GCGGGATTG	G GAACTCGCTT	GCGTCCTATG	ACTGAAAATA	CCCCTAAAGC	CTTGGTTCAG	5040
GTTAATCAA	A AACCTTTGAT	TGAGTACCAA	ATTGAGTTTC	TCAAAGAAAA	AGGAATCAAT	5100
GACATCATC	A TCATTGTTGG	TTATCTTAAA	GAACAATTCG	ATTACTTGAA	AGAGAAATAC	5160
GGTGTTCGT	C TCGTTTTCAA	TGATAAATAC	GCTGACTACA	ATAACTTTTA	CTCTCTCTAT	5220
CTTGTAAAA	G AAGAATTGGC	CAACAGCTAT	GTTATTGATG	CTGACAATTA	TCTCTTTAAA	5280
AATATGTTC	C GCAATGATTT	GACACGTTCG	ACTTATTTTA	GTGTTTATCG	TGAAGATTGT	5340
ACCAACGAA	T GGTTCTTGGT	TTATGGAGAT	GACTACAAGG	TTCAAGACAT	TATTGTTGAT	5400
AGCAAGGCA	G GTCGCATCCT	TAGTGGTGTA	TCCTTCTGGG	ATGCTCCAAC	TGCAGAAAAG	5460
ATTGTCAGC	T TTATCGACAA	GGCTTATGTA	AGTGGTGAAT	TTGTTGATCT	CTATTGGGAC	5520
AATATGGTT.	A AGGATAATAT	CAAAGAGCTA	GATGTCTATG	TTGAAGAATT	AGAAGGCAAT	5580
AGCATTTAT	G AGATCGATAG	TGTCCAAGAC	TATCGTAAAT	TAGAAGAAAT	TCTTAAAAAC	5640
AAAATTAA.	A GATTCCAACA	TCTGACAAAA	TAGTCGGATG	TTTTTTGATT	TTTTACGAAC	5700
TTTACGAA'	P AGATAGATGA	GTAGAAAAAG	AAATGGAGTT	ATTTATGAAA	ATCACAAACT	5760
ATGAAATCT	A TAAGTTAAAA	AAATCAGGTT	TGACCAATCA	ACAGATTTTG	AAAGTGCTAG	5820
ATACGGTG	A AAATGTTGAT	CAGGAGCTTT	TGTTGGGTGA	TATTGCAGAT	ATCTCAGGTT	5880
CCGTAATC	AGCCGTTTTT	ATGGAACGTT	ATTTTCAGAT	AGACGATGCG	CATTTGTCGA	5940

			· 818			
AAGAGTTTCA	AAAATTTCCA	TCTTTCTCTA	TTTTAGATGA	CTGTTATCCT	TGGGATTTGA	6000
GTGAAATATA	TGATGCGCCT	GTACTTTTAT	TTTACAAGGG	AAATCTTGAC	CTCCTGAAAT	6060
TCCCGAAGGT	AGCGGTCGTG	GGCAGTCGTG	CTTGTAGCAA	ACAGGGAGCT	AAGTCAGTTG	6120
AAAAAGTCAT	TCAAGGCTTG	GAAAATGAAC	TGGTTATTGT	CAGTGGTCTG	GCCAAGGGCA	6180
TTGACACAGC	AGCTCATATG	GCAGCTCTTC	AGAATGGCGG	AAAAACCATT	GCAGTGATTG	6240
GAACAGGACT	GGATGTGTTT	TATCCTAAAG	CCAATAAACG	CTTGCAAGAC	TACATCGGCA	6300
ATGACCATCT	GGTTCTAAGT	GAATATGGAC	CTGGTGAACA	ACCTCTGAAA	TTTCATTTTC	6360
CTGCCCGTAA	TCGCATCATT	GCTGGACTTT	GTCGTGGTGT	GATTGTAGCA	GAGGCTAAGA	6420
TGCGTTCAGG	TAGTCTCATT	ACGTGTGAGC	GAGCAATGGA	AGAAGGACGC	GATGTCTTTG	6480
CTATTCCTGG	TAGCATTTTA	GATGGACTAT	CAGACGGTTG	CCATCATTTG	ATTCAAGAAG	6540
GAGCAAAATT	GGTCACCAGT	GGGCAAGATG	TTCTTGCGGA	ATTTGAATTT	TAAAAATGAC	6600
CTAAGCTAGA	ATTCTAAGAA	AAAATCAATT	TTAAGAGAAA	ATGAACCCAA	CATTTCCATA	6660
ATAAAACGCA	TATTAGCAAG	TTTTTAACAC	TTGATAATAT	GCGTTTTTTC	TAAGTGGATT	6720
AGTAGAGTAG	AGGATTTTTC	TCATATAATA	CTCTTCGAAA	ATCTCTTCAA	ACTACGTCAG	6780
CTTCCATCTG	CAACCTCAAA	ACAGTATTTT	GAGCgaCTtC	GTCAGTCTTA	TCTACAACCT	6840
CAAAGCAGTG	CTTTGAGCAA	CCTGTGGCTA	GCTTCCTAGT	TTGCGCTTTG	ATTTTCATTG	6900
AGTATAAGGG	AAAGTATAGT	GAATTGAAAT	AAGATGTGAA	CAACTCTATC	AGGAAAGTCA	6960
AATTAATTTA	TAGAAATATT	TTAGCAGCCA	AGGTGTACTG	TTATAGATTC	AATTACACTA	7020
TAATTTAGTG	TAATTGAGAA	AGGAGAAATG	ATTGTGATTG	ATGTTGGCTA	GGTTATGTTC	7080
AATGATTCCT	ACCGTCTCAA	ATCTTGTCAG	TAAGGAAAAA	TAAATTCTTC	AAAAGTAGAG	7140
ATTACAAGGC	TTGTTTAAGA	AAGAATTCAA	AGACCTTGAC	TAAAAAAAA	AAAATGGTTA	7200
AAAAATATT	TGGTCTGAAA	TAGATGATGA	TACTTTTCGA	AAATCTCTTC	AAATACGTCA	7260
GCTCAGCTTT	GCCTTGCTGT	GTTTTGAGCA	AGCTACGGTT	AGCTTCCGAG	TTTGATTT"C	7320
ATTTACTAGA	AATGAAACTG	ATGAGAGATA	TCAGTAGACA	TTTGAGTCAG	GATATTATGG	7380
AAAATGATAA	AAAGAGCTCG	TGAGATTGGC	ATATCAGACT	ACTAAAGTAT	TGAGTTTGTT	7440
AGGATTTTAG	CGACTAGTTA	GCTGGGAAAG	GAAGATATTT	GTGACAAATA	ATAAACTGTA	7500
TTCGTTGATA	Gaatttagaa	АТААААТАТА	TGAAGAATTA	GAACTTTCCA	GAAGTGATTT	7560
AGCGATTTTA	CTATGTGCCA	TGCTTATCGC	CTCTATCGGA	TTAAATATGG	ATTCGACTCC	7620
CGTGATTATT	GGAGCCATGT	TAATCTCTCC	TTTGATGACA	CCTATTCTGG	GAGTGGGGCT	7680
CTCTCTAGCT	ATATTTGATT	TTAAATTGTT	AAGAAAATCT	TTTAAAATAT	TAGCTATTCA	7740

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AATTCTTGCC	AGTCTAATAG	CTTCAACACT	TTATTTTTAT	CTTTCTCCCA	TTTCGTATGC	7800
TAGTTCGGAG	ATTGTTGCTA	GAACCTCTCC	GACTATTTGG	GATGTTCTCA	TTGCTTTTGT	7860
AGGAGGGATA	GCAGGTATCA	TTGGTGCTAG	GAAAAAAGAG	AC		7902

## (2) INFORMATION FOR SEQ ID NO: 113:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 18627 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 113:

GAAGTTGAAA	TGGCCAGCTG	ATGAGCAATA	TCGGTCATAG	AAATCTTCTC	AATCAACTTT	60
TGCGCAATTT	TTTGGTTGAT	AATACGAGGA	ATTTGGTGAT	TTTTCTTGAC	GATAGAAGTT	120
TCAGCGACCA	TCATTTTTGA	ACAGTGATAG	CACTTGAAAC	GACGCTTTCT	AAGTAGAATT	180
CTAGTAGGCA	TACCAGTTGT	CTCAAGGTAA	GGAATCTTAG	ACGGTTTTTG	AAAGTCATAT	240
TTCTTCAATT	GGTTTCCGCA	CTCAGGGCAA	GATGGGGCGT	CGTAGTCCAG	TTTGGCGATG	300
ATTTCCTTGT	GTGTATCTTT	ATTGATGATG	TCTAAAATCT	GGATATTAGG	GTCTTTAATG	360
TCTAGTAATT	TTGTGATAAA	ATGTAATTGT	TCCATATGAA	TCTTTCTAAT	GAGTTGTTTG	420
GTCGCTTTTC	ATTATAGGTC	ATATGGGACT	TTTTTTCTAC	AATAAAATAG	GCTCCATAAT	480
ATCTATAAGG	GATTTACCCA	CTACAAATAT	TATAGAGCCA	AAAATCCTTT	GTTTACTAAA	540
CAAGGGATTT	TTCTTTTGTC	TCTGCTCCTT	TTTTGATATA	ATAGTTCTAT	GTTAAAATCA	, 600
GAAAAACAAT	CACGTTATCA	AATGTTAAAT	GAAGAATTGT	CCTTCCTATT	GGAAGGCGAA	660
ACCAATGTTT	TGGCTAATCT	TTCCAACGCC	AGTGCTCTCA	TAAAATCACG	TTTTCCTAAT	720
ACCGTATTTG	CAGGCTTTTA	TTTGTTCGAT	GGAAAGGAAT	TGGTTTTAGG	CCCCTTCCAA	780
GGAGGTGTTT	CCTGCATCCG	TATTGCACTA	GGCAAGGGTG	TTTGTGGTGA	GGCAGCTCAC	840
TTTCAGGAAA	CTGTTATTGT	TGGAGATGTG	ACGACCTATC	TCAACTATAT	TTCTTGTGAT	900
AGTCTAGCTA	AAAGTGAAAT	TGTGGTGCCG	ATGATGAAGA	ATGGTCAGTT	ACTTGGAGTT	960
CTGGATCTGG	ATTCTTCAGA	GATTGAGGAT	TACGATGCTA	TGGATCGAGA	TTATTTGGAA	1020
CAATTTGTCG	CTATTTTGCT	TGAAAAGACA	GCATGGGACT	TTACGATGTT	TGAGGAAAAA	1080
TCTTAATGTA	TCAAGCACTT	TATCGAAAAT	ATAGAAGTCA	AAACTTCTCC	CAGTTAGTTG	1140
GTCAAGAAGT	TGTGGCTAAG	ACTCTTAAAC	AAGCGGTGGA	GCAAGAGAAA	ATAAGTCACG	1200

			820			
CTTATCTTTT	TTCTGGTCCT	CCTGGAACGG	GAAAAACCAG	TGTTGCTAAA	ATCTTTGCCA	1260
AGGCTATGAA	CTGTCCCAAT	CAAGTGGGTG	GCGAACCTTG	CAATAACTGC	TATATTTGTC	1320
AAGCAGTGAC	GGACGGTAGT	TTAGAAGATG	TCATTGAAAT	GGATGCAGCT	TCTAATAATG	1380
GGGTAGATGA	AATTCGCGAA	ATTCGTGATA	AATCTACCTA	TGCGCCTAGC	CTTGCTCGTT	1440
ATAAGGTTTA	TATCATAGAT	GAGGTTCACA	TGCTGTCTAC	AGGGGCTTTT	AATGCCCTCC	1500
TAAAGACGCT	GGAAGAACCA	ACACAGAATG	TAGTCTTTAT	TTTGGCCACT	ACTGAATTGC	1560
ACAAGATTCC	TGCTACTATT	CTATCCCGTG	TGCAACGTTT	TGAGTTTAAA	TCAATTAAGA	1620
CACAGGATAT	TAAGGAACAT	ATTCACTATA	TCTTAGAAAA	AGAAAATATC	AGTTCTGAAC	1680
CAGAGGCTGT	GGAAATCATT	GCCAGACGGG	CGGAAGGTGG	AATGCGGGAC	GCCTTGTCTA	1740
TTTTGGATCA	AGCCCTGAGT	TTGACACAGG	GAAATGAGCT	GACGACTGCT	ATCTCTGAAG	1800
AAATTACTGG	CACCATTAGC	CTATCAGCCT	TGGATGATTA	TGTGGCGGCC	TTGTCTCAAC	1860
AGGATGTTCC	CAAAGCTTTG	TCTTGCTTGA	ATCTTCTTTT	TGACAATGGT	AAGAGCATGA	1920
CTCGTTTTGT	GACCGATCTT	TTGCACTATT	TAAGAGACTT	GTTAATTGTT	CAAACAGGGG	1980
GAGCAAATAC	TCATCATAGT	TCAGTCTTTG	TAGAAAATTT	GGCACTTCCT	CAAAAAAATC	2040
TGTTTGAAAT	GATTCGCTTA	GCAACAGTGA	GTTTAGCAGA	TATTAAGTCT	AGTTTGCAAC	2100
CCAAGATTTA	TGCTGAAATG	ATGACCGTCC	GTTTGGCGGA	AATCAAGTCC	GAACCAGCTC	2160
TATCAGGAGC	GGTTGAAAAT	GAAATTGCTA	CGCTGAGACA	GGAAGTTGCC	CGTCTCAAAC	2220
AAGAGCTTTC	TAATGTAGGT	GCGGTTCCTA	AACAAGTTGC	ACCAGCTCCT	AGTCGACCAG	2280
CTACGGGCAA	AACAGTCTAT	CGTGTCGATC	GCAATAAAGT	GCAATCTATC	TTACAAGAGG	2340
CCGTCGAAAA	TCCTGATTTA	GCACGTCAAA	ATTTAATTCG	TTTGCAGAAT	GCCTGGGGAG	2400
AGGTAATTGA	AAGTCTAGGT	GGGCCGGACA	AGGCTCTGCT	AGTTGGTTCT	CAACCGGTTG	2460
CTGCCAATGA	ACACCATGCT	ATTCTTGCTT	TTGAGTCTAA	CTTCAATGCT	GGTCAAACTA	2520
TGAAACGAGA	CAATCTCAAT	ACCATGTTTG	GTAATATCCT	CAGTCAGGCG	GCAGGTTTTT	2580
CACCTGAGAT	TTTAGCTATT	TCCATGGAGG	AATGGAAAGA	AGTTCGCGCA	GCCTTTTCAG	2640
CCAAAGCCAA	ATCTTCTCAA	ACTGAAAAAG	AAGTAGAAGA	AAGCCTGATT	CCAGAAGGAT	2700
TTGAATTTTT	GGCTGATAAA	GTGAAGGTAG	AGGAAGACTA	AAGAAAGATT	TCATGATACA	2760
ATAAGTTTAT	GAATAAACAA	CAATTTATTA	TTATGGCGCT	GTTTACAGCT	GCTGAGACCT	2820
ATTTTTTCAA	TGAAGCCTGG	ATGACTGGCC	GCTATATTAT	GGCAGCCTTT	TGGGCAATTT	2880
TACTCTTTAG	AAATTTCCGA	GTCAGTTATG	TGATGGGCAA	AATCGTTGAT	GTCATCGATC	2940
AGCATTTTAA	TAGGAAAGAC	TAGCCCTCAG	CTTCCAGACA	AAATCAAAGC	CTTTTAGGCT	3000

PTTTTTTGTT	ATACTAGAAA	AGTATATTTA	TAGAATTTTT	GCTCTATTTC	TGGGGAAATC	3060
AGACGTTTTT	CTAGTAAGTA	CTGTAAAAGT	TTTGAAAAAG	AAAGGAACTA	TCATGTCAGT	3120
ATTAGAGATC	AAAGATCTTC	ACGTTGAGAT	TGAAGGAAAA	GAAATTTTAA	AAGGGGTTAA	3180
CCTGACCCTG	AAAACAGGAG	AAATTGCCGC	TATCATGGGA	CCAAATGGTA	CAGGTAAATC	3240
GACTCTTTCT	GCCGCTATCA	TGGGAAATCC	AAACTATGAA	GTAACTAAAG	GTGAAGTTTT	3300
GTTTGATGGC	GTAAACATCC	TTGAGTTGGA	AGTGGATGAG	CGTGCGCGTA	TGGGACTTTT	3360
CCTTGCTATG	CAATACCCAT	CAGAAATCCC	TGGAATTACC	AATGCTGAGT	TTCTTCGTGC	3420
CGCTATGAAT	GCGGGTAAAG	AAGATGATGA	GAAGATTTCA	GTTCGTGAGT	TTATTACTAA	3480
GCTAGATGAA	AAAATGGAAT	TGCTCAACAT	GAAAGAAGAA	ATGGCAGAGC	GTTACCTCAA	3540
CGAAGGCTTC	TCTGGTGGTG	AGAAAAAACG	CAATGAAATT	CTTCAACTTT	TGATGTTGGA	3600
GCCAACATTT	GCTCTTTTGG	ACGAGATTGA	CTCAGGTCTT	GATATTGACG	CTCTTAAAGT	3660
PGTGTCTAAA	GGTGTCAATG	CCATGCGTGG	TGAAGGTTTT	GGTGCTATGA	TCATCACTCA	3720
CTACCAACGT	CTTTTGAACT	ATATCACACC	TGATGTGGTA	CACGTGATGA	TGGAAGGTCG	3780
<b>IGTTGTCCTT</b>	TCTGGTGGTC	CAGAATTGGC	TGCGCGTTTG	GAACGTGAAG	GATACGCAAA	3840
ATTAGCTGAA	GAACTTGGCT	ACGACTACAA	GGAAGAATTG	TAATTCCCTC	GTATCTTTTA	3900
GGAGAAGTAA	ATGACTAGAG	AAAATATTAA	ACTTTTTTCA	GAAATGCACG	CTGAACCAAG	3960
CTGGTTGGCT	GATCTCCGTC	AAAAAGCTTT	TGACAAGATT	GAGACTTTGG	AATTACCAGT	4020
PATTGAGTGT	GTCAAATTCC	ACCGTTGGAA	TCTGGGTGAT	GGAACGATTA	CAGAAAATGA	4080
GCCATCAGCA	AATGTTCCAG	ATTTCACAGC	TTTAGATCAT	CACTTGAAGT	TGGTGCAAGT	4140
AGGAACTCAA	ACTGTTTTCG	AACAAACTCC	AGTTGAGTTA	GCTGAACAGG	GTGTTGTCTT	4200
CACAGACTTT	CACTCAGCTT	TAGAAGAAAT	TCCAGAGCTG	ATCGAAGAAT	TCTTCATGTC	4260
ATCTGTTAAG	TATGATGATG	ACAAGTTGGC	GGCTTACCAC	ACAGCTTACT	TTAACAGTGG	4320
PGCTGTACTC	TATATTCCAG	ATAACGTAGA	AATCACAGAG	CCAATTGAAG	GAATTTTCTA	4380
CCAAGATAGC	GATAGCAATG	TGCCGTTTAA	CAAGCATATT	ATGATTATCG	TTGGTAAAAA	4440
TTCTAAGATT	AGTTATCTGG	AGCGTTTAGA	GTCACGCGGT	GAAGGAAGTG	ACAAAGCAAC	4500
PGCCAATATC	ACAGTGGAAG	TGATTGCACG	TTCTGGTGCG	CAAGTCAAGT	TTGCTGCTAT	4560
CGACCGTCTA	GGTGAAAACG	TCACTGCCTA	CATTAGCCGT	CGTGGTAAAT	TAGGCAACGA	4620
TGCAAGTATT	GACTGGGCTA	TCGGTGTCAT	GAACGAAGGA	AATGTCGTTG	CTGATTTTGA	4680
PAGTGACTTG	ATTGGTAATG	GTAGCCATGC	TGACCTCAAG	GTTGTAGCTC	TTTCAAGTGG	4740

822 TCGTCAGGTA CAAGGGATTG ATACTCGTGT AACTAACTAT GGCTGCAACT CAATCGGAAA 4800 CATTCTACAA CATGGGGTTA TCCTTGAAAA AGCAACTTTG ACTTTCAATG GTATCGGCCA 4860 CATCATCAAG GGTGCTAAGG GAGCAGATGC GCAACAAGAG AGCCGTGTTC TCATGCTTTC 4920 AGACCAAGCG CGTTCAGATG CTAACCCAAT TCTTTTGATT GATGAAAATG ACGTAACTGC 4980 AGGCCATGCA GCCTCTATTG GTCAGGTAGA TCCAGAAGAT ATGTACTACC TCATGAGTCG 5040 TGGCTTGGAT AAGGCAACTG CAGAGCGTTT GGTTGTTCGT GGTTTCCTTG GATCTGTTAT 5100 CGTGGAGATT CCAGTCAAGG AAGTTCGTGA TGAAATGATT GCAACTATCG AAGAGAAATT 5160 GTCAAAACGC TAAGGGGCAG CCTATGTTAG ATGTAGAAGC GATTCGCAAG GATTTTCCAA 5220 TTTTAGATCA GATTGTCAAT GATGAACCTC TGGTCTATCT GGACAATGCT GCGACGACAC 5280 AAAAACCACT AGTAGTTCTG AAAGCTATTA ACAGCTACTA TGAGCAGGAC AATGCCAATG 5340 TTCACCGTGG TGTCCATACC TTAGCGGAAC GAGCGACAGC TTCTTATGAA GCTGCTCGTG 5400 AAACCATTCG TAAGTTTATT AATGCAGGCT CTACAAAGGA AGTTCTCTTT ACCAGAGGAA 5460 CGACAACCAG CCTTAACTGG GTGGCACGCT TTGCTGAGGA AATTCTCACT GAGGGAGACC 5520 AGGTCTTGAT TTCAGTAATG GAACACCATT CTAATATCAT TCCATGGCAG GAAGCTTGTC 5580 GAAAGACTGG AGCAGAGCTT GTCTATGTCT ATCTTAAAGA CGGTGCCTTG GATATGGAGG 5640 ATTTGCGAGC TAAATTGACT GATAAGGTTA AATTTGTTTC CCTAGCTCAT GCCTCCAATG 5700 TTCTTGGTGT GGTCAATCCG ATCAAGGAAA TCACTCAATT AGCCCACCAA GTTGGGGCAA 5760 TTATGGTAGT GGATGGTGCT CAATCTACAC CTCATATGAA GATTGATGTC CAGGACTTGG 5820 ATCTGGACTT TTTCGCCTTT TCGGGTCACA AGATGGCTGG TCCGACTGGT ATCGGTGTCC 5880 TTTACGGCAA AGAAAAGTAT CTTGAGCAAA TGTCTCCAGT AGAATTTGGC GGCGAGATGA 5940 TTGATTTTGT CTACGAGCAA TTTGCTAGTT GGAAGGAATT GCCTTGGAAA TTTGAGGCTG 6000 GAACGCCAAA TATGGCAGGA GCTATTGGAC TTGCGACTGC AGTTGATTAT CTGGAAAAGA 6060 TTGGTATGGA TGCCGTTGAA GCTCATGAAC AGGAATTGAT TGCGTACGTC TATCCAAAAC 6120 TGCAGGCAAT TGAGGGATTG ACCATTTACG GTTCTCAGGA TTTGGCTCAA CGTTCGGGTG 6180 TTATTGCCTT TAACCTAGGT GATCTCCATC CTCACGATCT TGCGACGGCT CTGGATTATG 6240 AAGGAGTGGC TGTTCGTGCT GGTCACCATT GTGCGCAACC CTTGCTTCAG TATTTGGAAG 6300 TCCCAGCAAC AGCTCGTGCA AGTTTTTATA TCTACAATAC CAAGGCAGAT TGCGACAAAC 6360 TAGTCGATGC CCTACAAAAG ACAAAGGAGT TTTTCAATGG CACTTTCTAA ACTAGATAGC 6420 CTTTATATGG CAGTGGTAGC AGACCATTCG AAAAATCCAC ATCACCAAGG GAAGTTAGAA 6480 GATGCTGAGC AAATCAGTCT CAACAATCCG ACTTGTGGGG ATGTCATCAA CCTCTCTGTC 6540

AAGTTT	GATG	CAGAGGACCG	TTTGGAAGAT	ATTGCTTTTC	TAAATTCAGG	ATGCACGATT	6600
TCAACT	GCTT	CTGCTAGTAT	GATGACAGAT	GCCGTTTTAG	GAAAAACCAA	ACAAGAAATT	6660
TTAGAA	CTGG	CGACTATTTT	TTCTGAAATG	GTTCAAGGGC	AAAAAGATGA	GCGTCAAGAC	6720
CAACTT	'GGAG	ACGCGGCATT	CTTGTCAGGT	GTTGCCAAAT	TCCCTCAAAG	AATCAAGTGT	6780
GCAACC	CTAG	CTTGGAATGC	CCTTAAGAAA	ACAATTGAAA	ATCAAGAAAA	ACAGTAAGAC	6840
AAGTTT	CTTT	TGTCTTATGA	ATTATTAGAA	ATGAAGAAAG	AAAGGATACT	ATGGCTGAAG	6900
AAAGAG	TAGA	ACCAAAACCA	ATTGACCTTG	GTGAATATAA	ATTTGGTTTC	CATGACGATG	6960
TAGAGC	CTGT	CTTATCGACA	GGAAAAGGAC	TCAACGAAGG	TGTTATTCGT	GAATTATCTG	7020
CTGCTA	AGGG	TGAGCCTGAG	TGGATGTTGG	AGTTCCGTTT	GAAGTCTTAT	GAAACCTTCA	7080
ааааа	TGCC	CATGCAAACT	TGGGGAGCAG	ACTTGTCAGA	GATTGACTTT	GATGACTTAA	7140
TCTACT	ACCA	AAAACCATCT	GACAAACCAG	CCCGTTCTTG	GGATGATGTA	CCTGAAAAGA	7200
TTAAAG	AAAC	CTTTGAACGT	ATCGGGATTC	CAGAAGCTGA	ACGTGCTTAT	TTAGCAGGG	7260
CTTCTG	CCCA	GTACGAGTCA	GAAGTGGTTT	ACCACAACAT	GAAGGAAGAG	TTCCAAAAAT	7320
TAGGTA	TATT	CTTTACAGAT	ACAGATTCCG	CACTCAAGGA	ATACCCAGAC	TTATTTAAAC	7380
аатаст	TTGC	GAAGTTGGTA	CCGCCGACAG	ATAACAAGTT	GGCAGCCCTC	AACTCAGCAG	7440
TATGGT	CGGG	TGGAACTTTT	ATCTACGTGC	CAAAAGGTGT	CAAGGTAGAT	ATTCCACTTC	7500
AAACTT	TTTA	CCGTATCAAT	AACGAAAATA	TAGGTCAGTT	CGAACGTACC	TTGATTATCG	7560
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ATAGCT	TACA	CGCTGCCATT	GTAGAAATTT	TTGCTTTGGA	CGGAGCTTAT	ATGCGTTATA	7680
CAACTA	TCCA	AAACTGGTCT	GATAACGTCT	ATAACTTGGT	AACAAAGCGT	GCTAAGGCTC	7740
AAAAGG	ATGC	CACTGTTGAG	TGGATTGATG	GAAACTTGGG	TGCCAAAACG	ACTATGAAAT	7800
ATCCAT	CTGT	TTACCTTGAT	GGAGAAGGAG	CGCGTGGTAC	CATGCTCTCT	ATCGCCTTTG	7860
CTAATG	CAGG	GCAACACCAA	GACACGGGTG	CTAAGATGAT	TCACAATGCT	CCACATACCA	7920
GCTCGT	CTAT	TGTGTCTAAA	TCCATCGCTA	AAGGTGGAGG	AAAGGTTGAC	TACCGTGGAC	7980
AAGTCA	CCTT	TAACAAGAAC	TCTAAGAAAT	CTGTTTCCCA	CATTGAATGT	GATACCATTA	8040
TCATGG	ATGA	CTTGTCAGCA	TCAGATACTA	TTCCATTTAA	TGAAATTCAC	AACTCGCAAG	8100
TGGCTT	TGGA	ACACGAAGCC	AAAGTATCTA	AGATTTCAGA	AGAGCAATTG	TATTATCTCA	8160
TGAGCC	GTGG	ATTGTCAGAA	TCTGAGGCAA	CTGAAATGAT	TGTCATGGGA	TTTGTAGAAC	8220
ССТТТА	CAAA	AGAACTTCCA	ATGGAATACG	CAGTTGAGCT	GAACCGCTTG	ATTAGCTATG	8280

			824			
AAATGGAGGG	ATCAGTTGGA	TAAAATTTGA	TTTTATACTC	TTCGAAAATC	TCTTCAAACC .	8340
ACGTCAGCAT	CGCCTTACCG	TATGTATGGT	TwCTGAtTCG	TCAGTTTCAT	CTACAACCTC	8400
AAAACAGTGT	TTTGAGCAAC	tGCGGCTAGC	TTCCTAGTTT	GTTCTTTGAT	TTTGAGTATT	8460
AGATTTACTC	AAAATCAAGG	ATTTTGAAGA	TGAACTTGTA	TCAAAAAATC	GCGGTTTAAA	8520
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AAGAAGAAGG	CTTTTTCAAT	TTTCTTGTCT	GCTACCATTT	CGAAACTAGG	GCGCTCTGTG	8640
GTGATGTAAC	CTTGACCAAT	CAAGTCCTTG	TCTTCATAAG	TCAAATGGCC	AACCACTGTT	8700
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GATTGATTCC	CAACACGTTC	GATTAGATAG	ATATCCTCTG	GAGCCACTGC	AGTTACTGTA	8820
TCTTCTTTTC	CATCTTGTAC	AGGGGCTTTG	CTATCTTGAT	AGGCATCGCC	TTGTTGAACG	8880
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CGAGCGTAAG	GATTATTGTC	TTGATGATCT	GCATTTAAAA	CAACTGTGAT	GACTCTCATG	9000
CCTTTTTCGA	CAGTAGTACC	AACAAAAGAC	TCTCCAGCCT	TATCTGTTGT	TCCTGTTTTT	9060
AGCCCATCAA	AACCACCACG	GTAAGCAGGC	ATACCTTCTA	ACATGTAGTT	GGTTGAAGTG	9120
ATTGTCATCC	CAGCAAAAGT	AGAAGAAGGT	TTTTTGGTGA	TTTCTAAGAC	TTGTGGGTAT	9180
TTTTTGATGA	GGTTGCGAGC	AACGATAGCG	ACATCATAAG	CACTAAGCTT	ATTTTCCTCA	9240
ТСТТТТТТАG	AACCTGGGTA	AATGTTATCC	CCTAGAGTTT	CATTGTTAAG	ACCTGTCGTA	9300
TTGACAACAG	TGGCATCCTG	AATTCCCCAT	TCCAAGAGTT	TTGCCCGCAT	CATATCGACG	9360
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GATACCAGAG	TTGCTTCAAG	CAACTCTTCG	ACAGTATAAT	TACGGGCCTC	CATAGGAATA	9480
TTACTGGCTT	CAGAATTTGT	CGTCAATTGA	TAAGGATAAT	CAGAAATATC	TACAGGAGTG	9540
GAGAGGGTAA	TACTTCCGTT	TTCCAAAGCT	TCATAGACCA	GATAAACAGT	AATCAATTTT	9600
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GAAGCACCCC	CTAAAAGAGA	GACAGTTAAC	AAAGTTAAAA	ATATTTTTTT	CATAGTAGTC	9780
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GAAAATATGG	TAAAATAAAG	TAAGGGAGGT	AACTCATGTT	TCGTAGAAAT	AAATTATTTT	9900
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CTTTGATTAA	CCCTTTTGTT	AGCGTGCTTA	ATACAATTAT	GATTCCATTT	TTATTAGGGG	10020
GCTTTTTTTA	TTATTTGACA	AACCCTATTG	ттастттстт	AAATAAAGTC	TGTAAACTCA	10080

ATCGTTTGCT	TGGTATTTTA	ATTACCTTGT	GTACTTTGGT	CTGGGGAATG	GTCATAGGTG	10140
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АТАТССТААА	TAGCGTATCA	AATAGTGTGG	GGAGCGTCTT	GTCAGCTCTT	ATCAGTACTG	10380
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AATTCTAAAA	CATTGTTAGA	AATCGATTTG	ACTGTCCTGA	TCTATTCGTT	CTATTCTTAT	11280
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GGTCGTTACG	GATTCGACAG	GCATTATGAG	GCATATTTTG	CGACTCGTGT	GGCGACGTAA	11580
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TTTGCATTCC	TTGGTAAAAC	GTTGTTAAAT	CAACGTTTTT	ТАТТТТАТС	TTTGGTATTC	11940
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ACTGCAGAAG	ATATCCGTAA	GGCTAAAGCT	ATTATCATTG	CAGCAGACAA	GGCCGTTGAA	14640
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CACTTGATGA	GTGGTGTATC	TCAAATGTTA	CCATTCGTTA	TCGCTGGTGG	TATCATGATT	14880
GCCCTTGCCT	TCTTGATTGA	CGGTGCTTTG	GGTGTTCCAA	ATGAAAACCT	TGGCAATCTT	14940
GGTTCTTACC	ATGAGTTAGC	TTCTATGTTC	ATGAAAATTG	GTGGAGCTGC	CTTTGGTTTG	15000
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			828			
GACTTCCTAG	GCGGTCTTGG	AGGAGGTTCA	GCTGTCCTTC	TTGGTATCGT	CCTTGGTGGA	15420
ATGATGGCTG	TTGACATGGG	TGGACCAGTT	AATAAAGCAG	CTTATGTCTT	TGGTACAGGT	15480
ACGCTTGCAG	CAACTGTTTC	TTCAGGTGGT	TCTGTAGCCA	TGGCAGCAGT	TATGGCTGGA	15540
GGAATGGTGC	CACCACTTGC	AATCTTTGTC	GCAACTCTTC	TTTTCAAAGA	TAAATTTACT	15600
AAGGAAGAAC	GTAACTCTGG	TTTGACAAAC	ATCATCATGG	GCTTGTCATT	TATCACTGAG	15660
GGAGCGATTC	CATTTGGTGC	CGCTGACCCA	GCTCGTGCGA	TTCCAAGCTT	CATCCTTGGT	15720
TCAGCAGTAG	CAGGTGGACT	CGTTGGTCTT	ACTGGTATCA	AACTCATGGC	GCCACACGGA	15780
GGAATCTTCG	TTATCGCCCT	TACTTCAAAT	GCTCTCCTTT	ACCTCGTTTC	TGTCTTGGTA	15840
GGAGCAATCG	TAAGTGGTGT	GGTTTATGGT	TACCTACGCA	AACCACAAGC	АТАААААТА	15900
GAAAAATGAA	AAGATTGGAC	CGTTTGGTGC	AGTCTTTTTC	TCTTCCCGAA	ATGCCTGTGA	15960
AATATGGTAT	AATAGAAGAA	TGGCAAACAA	GAATACAAGT	ACAACAAGAC	GGAGACCGTC	16020
TAAAGCAGAA	CTGGAAAGAA	AAGAAGCGAT	TCAACGAATG	TTGATTTCGT	TAGGAATTGC	16080
GATTTTATTG	ATTTTCGCAG	CCTTCAAATT	AGGGGCTGCA	GGTATAACCC	TTTATAATTT	16140
AATTCGCTTG	CTAGTGGGTA	GCCTAGCTTA	TCTGGCGATA	TTCGGCCTAT	TAATCTATCT	16200
CTTCTTTTTC	AAGTGGATAC	GAAAACAGGA	AGGACTCTTA	TCTGGCTTTT	TCACCATATT	16260
TGCTGGCTTA	CTCTTGATTT	TTGAGGCCTA	CTTGGTTTGG	AAATATGGTT	TGGACAAGTC	16320
CGTTCTAAAA	GGGACCATGG	CTCAGGTTGT	GACAGATCTG	ACTGGTTTTC	GAACGACTAG	16380
CTTTGCTGGA	GGGGGCTTGA	TCGGGGTCGC	TCTTTATATT	CCAACAGCCT	TTCTCTTTTC	16440
AAATATCGGA	ACTTACTTTA	TTGGTTCTAT	CTTGATTTTA	GTGGGTTCTC	TCCTAGTCAG	16500
CCCTTGGTCT	GTTTACGATA	TTGCTGAATT	TTTCAGTAGA	GGCTTTGCCA	AATGGTGGGA	16560
AGGGCACGAG	CGTCGAAAAG	AGGAACGCTT	TGTCAAACAA	GAAGAAAAAG	CTCGCCAAAA	16620
GGCTGAGAAA	GAGGCTAGAT	TAGAACAAGA	AGAGACTGAA	AAAGCCTTAC	TCGATTTGCC	16680
TCCTGTTGAT	ATGGAAACGG	GTGAAATTCT	GACAGAGGAA	GCTGTTCAAA	ATCTTCCACC	16740
TATTCCAGAA	GAAAAGTGGG	TGGAACCAGA	AATCATCCTG	CCTCAAGCTG	AACTTAAATT	16800
CCCTGAACAG	GAAGATGACT	CAGATGACGA	AGATGTTCAG	GTCGATTTTT	CAGCCAAAGA	16860
AGCCCTTGAA	TACAAACTTC	CAAGCTTACA	ACTCTTTGCA	CCAGATAAAC	CAAAAGATCA	16920
GTCTAAAGAG	AAGAAAATTG	TCAGAGAAAA	TATCAAAATC	TTAGAAGCAA	CCTTTGCTAG	16980
CTTTGGTATT	AAGGTAACAG	TTGAACGGGC	CGAAATTGGG	CCATCAGTGA	CCAAGTATGA	17040
AGTCAAGCCG	GCTGTTGGTG	TAAGGGTCAA	CCGCATTTCC	AATCTATCAG	ATGACCTCGC	17100
TCTAGCCTTG	GCTGCCAAAG	ATGTCCGGAT	TGAAGCACCA	ATCCCTGGGA	AATCCCTAAT	17160

CGGAATTGAA	GTGCCCAACT	CCGATATTGC	CACTGTATCT	TTCCGAGAAC	TATGGGAACA	17220
ATCGCAAACG	AAAGCAGAAA	ATTTCTTGGA	AATTCCTTTA	GGGAAGGCTG	TTAATGGAAC	17280
CGCAAGAGCT	TTTGACCTTT	CTAAAATGCC	CCACTTGCTA	GTTGCAGGTT	CAACGGGTTC	17340
AGGGAAGTCA	GTAGCAGTTA	ACGGCATTAT	TGCTAGCATT	CTCATGAAGG	CGAGACCAGA	17400
TCAAGTTAAA	TTTATGATGG	TCGATCCCAA	GATGGTTGAG	TTATCTGTTT	ACAATGATAT	17460
TCCCCACCTC	TTGATTCCAG	TCGTGACCAA	TCCACGCAAA	GCCAGCAAGG	CTCTGCAAAA	17520
GGTTGTGGAT	GAAATGGAAA	ACCGTTATGA	ACTCTTTGCC	AAGGTGGGAG	TTCGGAATAT	17580
TGCAGGTTTT	AATGCCAAGG	TAGAAGAGTT	CAATTCCCAG	TCTGAGTACA	AGCAAATTCC	17640
GCTACCATTC	ATTGTCGTGA	TTGTGGATGA	GTTGGCTGAC	CTCATGATGG	TGGCCAGCAA	17700
GGAAGTGGAA	GATGCTATCA	TCCGTCTTGG	GCAGAAGGCG	CGTGCTGCAG	GTATCCACAT	17760
GATTCTTGCA	ACTCAGCGTC	CATCTGTTGA	TGTCATCTCT	GGTTTGATTA	AGGCCAATGT	17820
TCCATCTCGT	GTAGCATTTG	CGGTTTCATC	AGGAACAGAC	TCCCGTACGA	TTTTGGATGA	17880
AAATGGAGCA	GAAAAACTTC	TTGGTCGAGG	AGACATGCTC	TTTAAACCGA	TTGATGAAAA	17940
TCATCCAGTT	CGTCTCCAAG	GCTCCTTTAT	CTCGGATGAC	GATGTTGAGC	GCATTGTGAA	18000
CTTCATCAAG	ACTCAGGCAG	ATGCAGACTA	CGATGAGAGT	TTTGATCCAG	GTGAGGTTTC	18060
TGAAAATGAA	GGAGAATTTT	CGGATGGAGA	TGCTGGTGGT	GATCCGCTTT	TTGAAGAAGC	18120
TAAGTCTTTG	GTTATCGAAA	CACAGAAAGC	CAGTGCGTCT	ATGATTCAGC	GTCGTTTATC	18180
AGTTGGATTT	AACCGTGCGA	CCCGTCTCAT	GGAAGAACTG	GAGATAGCAG	GTGTCATCGG	18240
TCCAGCTGAA	GGTACCAAAC	CTCGAAAAGT	GTTACAACAA	тааааааата	GCTTCTTTCC	18300
AAGTTTGGAG	GGAAGCTATT	TTAGTGGCTA	TTGATTGCTT	TTATTTTCTG	AAGTTGGCGC	18360
ATTGGACTGT	TTTTCGTTTT	CAGTAGCAGG	TTTACTTGAA	GCAGGAGTAG	AAGAGTCCTG	18420
AGTTGCTGTT	TTCTGATCTT	CTTTTTTCTC	TTCCTTGACG	CTAGATTTTG	GTGTTTCCTC	18480
TTGCTGTGTT	TTTTCTTGAC	TAGTGTTAGT	CTCTTTAGTT	GGACTGGTGT	TTTCCTTAGG	18540
GGATTCCTTT	TGGATTTCTT	TGACAATGGT	TGTCGTCTGG	CTTGTCGTAG	GTTCTTTTTT	18600
AATATTTTTG	TTATTATCCA	AGGCGTT				18627

## (2) INFORMATION FOR SEQ ID NO: 114:

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 2560 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double
   (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 114:

TAAAATACGT	TACCTTGCTT	CTGCACGTTC	AGCAGGTAAG	TCATTGAAAT	TTAAAGATCA	60
AGATATTACA	ATTGAAGAAA	CGACTGAAAC	AGCTTTTGAA	GGAGTTGATA	TTGCTCTCTT	120
TTCAGCAGGT	AGTTCTACAT	CAGCTAAGTA	TGCACCATAC	GCAGTAAAAG	CTGGCGTGGT	180
AGTAGTAGAT	AATACATCTT	ATTTCCGTCA	AAATCCAGAT	GTTCCTTTGG	TTGTTCCAGA	240
GGTCAATGCT	CATGCACTTG	ATGCTCACAA	CGGAATCATT	GCCTGCCCTA	ATTGTTCAAC	300
AATTCAAATG	ATGGTGGCTC	TTGAGCCGGT	TCGCCAAAAA	TGGGGCTTGG	ACCGTATCAT	360
TGTTTCAACT	TATCAAGCCG	TTTCAGGTGC	TGGTATGGGA	GCAATTCTTG	AGACACAACG	420
TGAACTTCGT.	GAAGTCTTGA	ATGATGGTGT	GAAACCACGT	GATTTGCATG	CGGAAATCTT	480
GCCTTCAGGT	GGTGACAAGA	AACATTATCC	TATCGCCTTT	AACGCTCTTC	CACAAATTGA	540
TGTTTTCACT	GATAATGATT	ACACGTACGA	AGAGATGAAG	ATGACCAAGG	AAACTAAGAA	600
aattatggaa	GATGATAGCA	TTGCAGTATC	TGCAACATGT	GTGCGTATTC	CAGTCTTGTC	660
AGCTCACTCT	GAGTCTGTTT	ATATCGAAAC	AAAAGAAGTG	GCTCCAATCG	AAGAAGTAAA	720
AGCAGCTATC	GCAGCCTTCC	CAGGTGCTGT	TCTTGAAGAT	GATGTAGCTC	ATCAAATCTA	. 780
TCCTCAAGCT	ATCAATGCAG	TTGGTTCGCG	TGATACCTTT	GTTGGTCGTA	TCCGTAAAGA	840
CTTGGATGCA	GAAAAAGGAA	TTCACATGTG	GGTTGTTTCA	GATAACCTTC	TCAAAGGTGC	900
TGCTTGGAAC	TCAGTTCAGA	TTGCTGAAAC	TCTTCATGAA	CGTGGATTGG	TTCGTCCAAC	960
AGCCGAATTG	AAATTTGAAT	TAAAATAGTC	ATATCGTTTA	GGAGTTCAGA	TGAACTCCTT	1020
CTTTGAAATA	GAGAGGTGTT	TTCGTGTCTT	ATCAAGATTT	AAAAAAATGT	AAAATCATTA	1080
CAGCCTTTAT	TACCCCCTTC	CATGAGGATG	GTTCCATTAA	CTTTGATGCT	ATTCCAGCCT	1140
TGATTGAGCA	TTTATTGGCC	CATCATACGG	ATGGAATTCT	TCTCGCAGGA	ACGACTGCTG	1200
AGAGTCCAAC	TTTGACCCAC	GATGAGGAGT	TGGAGTTGTT	TGCGGCTGTA	CAAAAGGTTG	1260
TCAATGGACG	CGTTCCTTTG	ATTGCGGGTG	TAGGTACTAA	TGATACGCGT	GACTCTATTG	1320
AGTTTGTCAA	AGAAGTAGCG	GAATTTGGTG	GTTTCGCAGC	TGGGCTTGCT	ATTGTTCCTT	1380
ACTACAACAA	ACCTTCTCAA	GAAGGGATGT	ATCAGCACTT	TAAGACTATT	GCAGATGCTT	1440
CTGACCTACC	AATTATTATC	TATAACATTC	CAGGGCGTGT	AGTTGTCGAA	TTGACTCCAG	1500
AAACCATGCT	TCGCTTGGCT	GACCATCCAA	ATATTATCGG	TGTCAAAGAA	TGTACTAGCT	1560
TGGCTAATAT	GGCTTACTTG	ATTGAGCACA	AGCCTGAAGA	GTTCTTGATT	TATACAGGTG	1620
AGGATGGAGA	TGCTTTCCAT	GCCATGAACC	TTGGGGCGGA	TGGGGTTATT	TCTGTTGCCT	1680

831

CTCATACAAA	TGGGGATGAA	ATGCACGAGA	TGTTTACTGC	GATTGCAGAA	AGCGATATGA	1740
AGAAAGCCGC	AGCAATTCAG	CGTAAATTCA	TTCCTAAGGT	TAATGCTCTC	TTCTCTTATC	1800
CAAGTCCTGC	TCCAGTTAAG	GCAATTCTTA	ACTATATGGG	ATTTGAAGCT	GGACCCACTC	1860
GTCTACCTCT	TGTTCCAGCA	CCAGAAGAAG	ATGCCAAACG	CATTATCAAG	GTTGTCGTAG	1920
ATGGCGACTA	CGAAGCAACT	AAGGCAACTG	TAACAGGGGT	CTTAAGACCA	GATTACTAAT	1980
AAAGACAATA	AAATCCGGCT	CTTTGTCAAC	TGTAGTGGGT	TGAAGTCAGC	TAAGCTCGAG	2040
AAAGGACAAA	TTTTGTCCTT	TCTTTTTGA	TATTCAGAGC	GATAAAAATC	CGTTTTTTGA	2100
AGTTTTCAAA	GTTCCGAAAA	CCAAAGGCAT	TGCGCTTGAT	AAGTTTGATG	AGATTATTGG	2160
TCGCTTCCAA	TTTGGCGTTT	GAATAGGGTA	GTTGAAGGGT	GTTGACGATT	TTCTTTTTGT	2220
CCTTTAGAAA	GGTTTTAAAG	ACAGTCTGAA	AAATAGGATG	AACCTGCTTC	AGATTGTCCT	2280
CAATGAGTCC	GAAAAATTTC	TCCGGTTCCT	TATTCTGAAA	GTGAAACAGC	AAGAGTTGAT	2340
AGAGCTGATA	GTGATGTTTC	AAGTTTTGTG	AATAGCTCAA	AAGCTTGTTT	AAAATCTCTT	2400
TATTGGTTAA	GTGCATACGA	AAAGTAGGAC	GATAAAATCG	CTTATCACTC	AGTTTACGGC	2460
TATCCTGTTG	AATGAGTTTC	CAGTAGCGCT	TGATAGCCTT	GTATTCGGGA	TTTTCGATGA	2520
AACTGATTCA	TGATTTGGAC	ACGCACACGA	CTCATAGCAC			2560

### (2) INFORMATION FOR SEQ ID NO: 115:

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 11303 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double
   (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 115:

TATTGGATTT	CCCTTGCAAT	CAGTTTATGG	GACAAGCACC	CGGCAGCGCA	GAGGAAATCA	60
ACGCCTTCTG	TAGCCTACAT	TTTCAAACCA	CCTTCCCACG	TTTTGCCAAG	ATTAAGGTCA	120
ACGGTAAGGA	AGCAGACCCT	CTCTATGTCT	GGTTACAAGA	CCAGAAATCC	GGCCCACTAG	180
GAAAACGAGT	CGAATGGAAT	TTCGCTAAGT	TTCTCATCGG	TCGAGATGGG	CAAGTCTTTG	240
AACGCTTTTC	TTCAAAAACA	GACCCAAAAC	AAATTGAAGA	GGCGATACAA	ACTCTACTAT	300
AATTCACAAT	CTCACTATGA	TTAGGTTTCC	TTTAACCTGA	TGAATAGTGA	GATTTTTTGA	360
TGGGCTTTGA	CTTAAATAGA	AAAACACCCC	ATGATATGAA	ACATGAAGTG	TTGTAAAGTC	420
TATGTTGTAG	GTGCTTATTT	CACAATTTCA	ATGTGACCAG	TGATAACGAA	TACCATACAG	480

	•		832			
AATCTTCATA	TACACTAAAC	AAATGACTTT		CAATTAGTTT	TGGCTAGTAA	540
ATATCATTTC	CAACAAACGC	CCTCTCAATT	CCTTATCCTG	ATGATGCAAG	ATATTCATTA	600
AGTCATGAGA	GTTTTTCGCA	TTGATGAATT	GATTTAACAA	TCTATCTTTT	AATTCATATG	660
GAAGAGAAGC	TGTCTTTAGT	AGTCTAAAAA	CTTCGTCATT	TAAAGATGTC	СТТТТАТТАТ	720
CTTTCCATTC	AAATTTAGCT	GTATCATTCT	TATTTGGCAA	TTĈAATTATA	GACACATTCG	780
ТТССТТТААА	ATGAATTCTA	TGTTTTCTAT	TGCTTGGAAC	GATACTAGAA	TCTCCTTGTA	840
ATGCTAACTC	TACCATTCCC	ATTTCCCAAT	CGATTGATAA	TCTTGTTTTA	TATCTTTGAC	900
CATTTTGATC	TTCAAGCATT	TCAAAAGAAT	GTTGTTTTCC	TGGGAATACA	TACCAATCTA	960
CAACTTCAGG	TAAATCAACA	CCCATACCTA	TCTCAGAACC	AACCAAGGGA	ATGATTGCAC	1020
CACTTTTTGC	AAACACAGGC	GTAGTCGAGA	TGTCCCTATA	AACACTTAAC	TTCACACCAC	1080
CTGTGTATTT	TTTCTCTGAA	AAGAAGTCAT	ACCATTCACC	TTCAGGGAAC	САТАСАТСТА	1140
CTTTTGCAGA	TTGGAATGTC	AAATCCATCT	TTTCTACAAT	GGGAGCCACC	ATCAGTTCTG	1200
TTCCAAAAAA	GTATTGGTTT	GGAACATTAT	AGCTCTCATC	ATTCTCTGGA	TAGAAATAAT	1260
AGATTGGACT	GATTAATGGG	GCACCTTCCT	CATGTGTCTG	TACATTCATG	GTATATAGAT	1320
AGGGAATCAT	CTGATGTCTC	AAACGAAGGT	ATTTCTTCAT	AATCTTAGAT	GTTGTTTCTG	1380
AAAAAAACCA	AGGTTCTTTA	CTATTAAAAG	GACTTCTAGA	ACTATGTAAT	CGAGTAATCG	1440
GACTAAAAAC	ACCAAACTGT	AGCCATCTAG	TTTGTAGCTC	TTCGTCATAA	TCCCCCAACA	1500
TATGTCCACC	GATATCATGA	CTCCACCAAC	TATAACCGAT	ATTAGATGCT	GTCGCTGTAA	1560
AATAGGGTTG	AAATCTTAAG	GAATTCCAAC	TAATAATAGT	ATCCCCTGAA	AAACCAACAG	1620
GGTAGCGGTG	ACTACCAGGA	CCTGCATATC	TTGATAAAAT	CAAACCACCT	TCTGCATTTT	1680
TACAACTATC	CTGATAGTGA	TAATGGTTTA	AAAGCCAAAG	TGGATCTAGC	ATACCTTGTG	1740
TCCCTTGTTG	CCAGTCAATC	CACCAAAAAT	CTACTCCCTG	CTTTTCTAGT	TCATAATGAA	1800
САТСТТТААА	GTAGGCTTCC	CTAAAAGAGG	GATTAAAAAA	АТСАААААТА	GCAGGTTCTT	1860
CTAGTTCTAC	ATTTAACCCC	AACCGTTTTG	CGATTTGAGG	ATAAGCTTCT	TCATAAGCCC	1920
GTATCCCATC	AGCAGGATGG	ACATTTAAGG	AGAGTTTTAG	CTTTCTATCA	TGAAGTTGTT	1980
GCAATAACTG	TTCTGGATTT	GGTATTAAGT	TTCTATTCCA	ACTATATCCT	GTCCAGCCAC	2040
TTCCAAAGCG	AGCTGGAATG	TCAGTTATAT	GCCAATCCAT	ATCTAACACA	CCGATAGATA	2100
ATGGAATTTT	CTCTGTTTCA	AATCTGTCTA	TTAAATCCAA	GTATTCATCC	GACGTATAAG	2160
GCCAATATCT	ACTCCACCAA	TTGCCTAAAG	CATATCTTGG	CAACAAGGGT	GTTGAACCAG	2220
TCAAATGGTA	AAAATCTCTG	ATTGCTCCTC	TATAATCATG	CCCATAGGCA	AAGAAATACA	2280

GTCAATTTG	ATTTTCTCTC	TCAATATAAC	CAGATTGTTC	ATCCCAAATA	AATCCTTGAG	2340
ATCATCCAA	TAAGGCTATA	CCATTTCGGC	TAATAATTCC	ATCTTCTAAC	GAGATTGCTC	2400
CATCTGCCTT	ATCCAGAGTC	CGAGCTGTTC	CTTTTAACGT	TTCAATAGAT	TCACCAAAAT	2460
ACCAGCGACT	ACCATATACG	GCAAAATTTC	CTTTTAATTC	ТАТАААТААА	TTTTCGGCGT	2520
ГАААТТСТСС	TTTATTAAAG	TGCAGATGAA	AATAGTCCGT	САТААТАТСТ	AGTACGTTTG	2580
ATGTCTCGAT	ATAATCTAAC	GAAATTTGGC	CAAAATCTCT	ATTATAGATA	AGTTGTGTCG	2640
гтстатсстс	AAAACTTCCA	GTTTGAGAGT	ATTCTAACCT	TACTAGCTTG	TCTGTTAATA	2700
CAGAGATTCG	ATAAAACTCT	CCCTTAAAAA	TTTTCAATTT	GTTTTCCTCC	TTTTATGGTA	2760
CATAAAAAC	AGAACGCACC	ATTTTTGATG	CGTTTTTCAT	TATTCTGAAT	GCAATGTTCT	2820
atctgttata	TCTATGACAA	ATAATAGTCA	ATTGAAAAA	TGCAGTGGAC	AAAATATCTT	2880
PTAACAAACC	AAGAGTTTAT	TAAAGAGTTA	TCACTTTTCA	ACTTTTCTAA	GCTTATGCAG	2940
PTGTGAAACA	AACTACTTTT	AAACTATTAA	CTAAGATAGG	ATTGATAAAT	AATTTCAAAC	3000
<b>PCTTACTAGC</b>	AATCATACGA	TATTCAAGCT	CACGTGCTTT	TTTCCTTCCT	GCTTATTTCT	3060
<b>PAGAACTGAA</b>	GAACCCGGAT	CGGTATATAA	ATTATCCGGA	TCAACATAGT	CATAAGATTC	3120
ATAACAGTTG	CGCTTCATTA	AGTCATCCCC	AGAGCAAGAG	CTTCATCTCG	TAATTTTTCA	3180
ACATCACTAA	CCGTAGGTCG	CCATCCTTCA	ATCATATTTG	TACTTAAAGC	ATACCAAACA	3240
CTCTTAAAAA	CGGATCGGTT	TTCAAAAGCT	ATTCCCATGA	TTGTCATCTT	TTCTTTATCT	3300
ATATCTAAGG	ACATATGCTA	CCTCCTTTAG	ATACATTATA	CCATGTTTCT	CTGTAGCTTT	3360
TTTTAAAAAT	ATTTTGTTTG	TCATATCTAA	GTTTTCAGCA	CGCTTATCCT	ATTTTATAAG	3420
CTCAAACCC	AAATATAAA	CGCATTCTTT	TTGCTTTTTT	ACTATTGTAT	CGTATTCTAC	3480
GATAACATAC	TTTACTTTAT	TGTTTTTTTA	AATAACAGCA	GTTCCCTGTT	TATCAACTAT	3540
PCGAACTACT	TTCTATTTTG	CTTCATACCC	TACATAGCGA	<b>AAAAAT</b> ATGA	AAAAGCAGAG	3600
AGAATATCT	TAAAAAGACC	TCTTCACTGC	TAATATTAAC	ACTCATTATT	ТАААСТАТАТ	3660
GATTCTATC	ATCGAGTATA	CTTTTTTACT	TATTAGATAC	CTTGCTCTTC	TTTCACCAAT	3720
TTTTGATCAT	ATACACGGAT	GAATGGAAGA	TAGACTAGGA	ATGCTGCAAA	TGCACATACT	3780
AGAGCAACTA	ATACAGCTCG	AAGATCTGCT	GTCCCTAAGA	AAGCTCCAAT	CCCTACTGGA	3840
GTTGGCCATG	GAACCTGTGC	GATAATTGGC	TTAATAAAGT	TTAGAGAATT	CGCTACGTAA	3900
Paaatagtag	CAGTAACCAT	TGGTGCTAAA	ATAAATGGTA	TAGCCAAGGC	TGGATTATAG	3960
TAATAGGTA	ATCCAAAAAT	TAATGGTTCA	TTAATATTAA	ATAAGGCTGG	AACTACAGAT	4020

			0.34			
GCTCGTCCTA	TTGCTTTAAG	CTGTTCAGAT	TTAGAGGCAA	AAGCAATATA	TAAACATAGT.	4080
CCTAAAGTTG	CACCAGAACC	ACCTGCAATT	ACAAACATAT	TAGAAAATTC	ACCTGCAACA	4140
GCGAAGTGCC	CGCCAGCAGC	ATTTTCAGCC	ATGTTAGCAA	GAGCAATTGG	АСТААСАААТ	4200
GCAAAAACAA	TGTTCGCACC	GTGGATACCT	ACAATCCAAA	GTAGTTGAGT	CAATAGATAA	4260
ATAATCATTA	AACCAATCCA	CGAATTAGTC	AGATTGGATA	CAAAACCAAA	TGGAATTGCA	4320
ATGACTTTAA	AAATATCTGT	TCCCATTGCT	ACAAGAAGAC	CGTTGATAAA	GATAACAACA	4380
AATGCAACAA	CAAATCCCGG	AACCAAAGCG	GTAAATCCAC	GAGAAACTCC	TTCTGGAACA	4440
GCTTCAGGCA	TTTTAATAAC	CCAATTATGT	TTAACACACA	TACGATAAAT	AAGAACAGTC	4500
ACAATTGCCA	TAATGATTGC	GGTAAAAATC	CCTGTTGTCC	CAAAACGTGC	GACTACATTT	4560
CCCATTGCCC	ATCCATCTGC	AATTACTGCA	CCTTCTTTTA	GACTTGTCAC	AGTCTTCATC	4620
ATTCCACCAT	CAAAAATGAT	TTGCGGTACT	GTCATGACAA	AAGCCATCAA	GGCAAGCAAG	4680
GCACCATTAA	GAGGATTCAT	ATTGAGTTCT	TCTTCCTCTG	CATAAATTTT	TGTCAATTCA	4740
TATGCAAGTG	ATAGAACGAA	ATAAAGAGAT	AGAGAACCCA	TAGTCGCATA	GTTTGCAACC	4800
atgtaaagtg	ATGTGAATTT	ATCAAATGAA	GCAGAGAAAA	TATCTGCCAC	AATTGGCCAA	4860
aatgagaaag	CTTGTGGCAA	AATACTGAAT	ACCAAAAACA	TTGATCCTAC	AATAGTAAAT	4920
GGTACAGCAG	CCATACCTGC	AGCCGTGATA	GCACGTACTA	CTTTAAACTG	AGCAAGTTTG	4980
CCCATTGGTC	CCATAACATG	GTTTTCAAGA	AAACCAAACA	ACCCGTTTTG	TTGATCCATA	5040
AATAGACCTC	CTTAATAAAA	CATAATAATT	TTTACTTTCT	AAAGACTAGT	TTCAAATACA	5100
AATTATACTA	GATCAGGATT	ATAAACTAAG	TGAGTTCTTT	TCCAATTGGA	CAAATTGTTG	5160
ATAAGCCTTA	TCTGTTCGTT	TATAAATTTT	TTTAATTCTT	CTAATGTCTA	ACAAACTCAG	5220
AACTAAACCT	AATAGAAGAA	CTACAAAAAC	AAATAAACGT	GCTACTTGGT	TATTTTCAAA	5280
AATCGGAAAA	AGATTCTTAA	ACCAACTTGT	CCAAGTTAAA	ACAAGTAATC	СТАТТСАААТ	, 5340
AAGCATTTGT	ATTCTAACAA	ACATTAGTGT	TATTCCCAAC	TTTTCTTTCC	TATTTCCATA	5400
AAGTTTAAAT	TGTTCAACAG	TTGCTAAAAT	AGAAAATACT	ATGAGCATAA	TGGGGAAAAT	5460
AATAATAGGC	GAGGGACTAA	TAAACTGACT	CAAAAGCCAA	TAAATATTCC	CAAAAAAGAA	5520
GAGTGCTATT	GAATAACGTA	GAAGAAGATA	TCGATTGAAA	AAAGTATTAG	TTAGAGCCAT	5580
CTCTCGACGT	TGTTGTTCAA	TCTTTTGTCG	TTCTTTTTTA	TCCATATCAT	TTCCTCCTTA	5640
TATAACAACA	CATATTTAGT	TAACTTTCTT	ATAAAGAGCT	AACATTTCCT	TTGCTACTTC	5700
TAATAATGTC	ATAGTGGTCA	TTAAATGATC	TTGAGCATGT	ACCATGATAA	TTTCAATTTT	5760
AATTTCCACT	CCACTTGCGT	ATTCTTGCAA	GAGTTTGGTT	TGTGCATGAT	GCGCTTCAAG	5820

ATTATCTCA	TTTGATTGAT	TTAATTTACT	TTCTGCATCA	TCAAAACTAC	CTTCTCTCAT	5880
<b>TTTTGCAAAT</b>	GCTTCATGTA	TTTCTGACCT	TGCATTTCCC	GAATGCAGGA	TAATTTCAAA	5940
rgctgcaacc	TGCAGTTCCT	CTTGATTCAT	ATAAACCTCC	TATTTTATCT	TCTCAAATAT	6000
AAAATAATTE	TCTTCAAAGT	TATTGCAAGA	TATTAGCTGA	TTTTGCAATT	CATCATTCTC	6060
rgtcagagag	ACTATCTTTT	TAGTCACAGT	TGCCAAACCT	TCGTTCCCAT	ATATTGATGG	6120
AGATAGAAGA	AATACTAGCT	GGACATGTGA	ACTTTGATTA	TCCCAGAGTA	ACGAATCTTT	6180
ACAAATTGCA	ACCGAAACCT	TTCCCTCTGT	ACCAAAGGGC	TGAATAGGAT	GCGGAACTGC	6240
\ATTTTTCA	GAAAAAACAA	CTGAACTTAA	TTCTTCGCGC	TGTTTAATTC	CATAAAGTAA	6300
AGATTGTTCA	AACTCATTTG	ATTCACCAAC	AGATAAACTC	TCAACCATCT	TTTCAAGTAA	6360
ATTTACCTTG	TCTGATTCAG	TACATATTAA	AAAGTTTTCT	TTACTAAAAT	ACTGTCTAAA	6420
SCCGTTGTTT	TCAAATTTGT	TAATCTTTGA	TGATTGTACA	TAACTAGAAA	CTTGCATCTA	6480
ATCCATAGCT	TTTCTAATCA	TTTCCATCTC	ATCACTCTTA	AGAAACACAC	TAACTTTAAA	6540
ACTGGGATT	TGAAAATATA	GATTTGATAA	ATCAATAGCT	GACACTATAA	AATCTATTCC	6600
PTTAAGTTTT	TCTTGATTCA	ATTCATAGTA	GCCTATTACA	TCAACAACTT	CTACTCGCTT	6660
CCCAAACTCC	GTTTCCAAAC	GATTTCTTAA	CATTTGGGCT	GCACCAAATC	CTGTTGCACA	6720
<b>AATAGCAAGA</b>	ATATTAAACT	TAGTACTCTC	TTTGCTACGT	TCCATAGCAG	CTAAAAAGTG	6780
AGACTTACA	TATGCTACTT	CATCATCTGA	TATTGTCCAC	TCCAAGAACT	TGTCCATATT	6840
rgcaagaatt	TCTCTAGTCA	TAAAGAATAT	ATCACTATAA	TTCTGTTTAA	TTTCATCTAC	6900
CAAAGGGTTA	TTTAAGGTAA	TCCGGCTTTC	TAAACGTACT	TGTAGTGTCA	TTAGATGAGT	6960
PATCAATCCT	TCAATTAGTT	GGAAATCTGA	agaaaagtta	TACATATCAT	CTAATCCTAA	7020
<b>TTCTGAAA</b> T	GTTTTAAATA	AAGATTTTTT	TAAAACTTCT	TCAGAAATAT	TCTTCTGATT	7080
<b>PTTTTGACAT</b>	TGTTGACTCT	TAGCTAACAA	ATGCAAAGTA	ATGTAGTCTA	TTTCCTGAAC	7140
rggaaattcc	TGATTTGTTA	CTTCTCTTAC	TTTAGAAAGA	ATTCTTTGGG	CAACCTTTCT	7200
TCTATTGCA	TCATCAGTCA	TCTGACAGTC	TATATTTTTT	ATTTCAAATC	CGGATTTTAA	7260
ACGAATCACA	GACAATGCTA	TGTGAACTAC	TAAATTCTGT	AGTACAAAAT	CAGATAGTTT	7320
PAGGTTGGCC	TCTTGGCATT	CATCCAAAAC	AATTCTAGCA	AATTCTTCTA	ATGGAACAGT	7380
PTGATCAAAA	AAGTTAAATT	TTACATAGCA	ATGTATTGTT	TTAAAAAATT	GATTCTCTAG	7440
TTTAATAAE	ATGATAAAAC	GTCGTTTATC	ACGTTCCTCG	CCTGAGACAT	AAACTCCTTT	7500
ALERC COCCURA	CTCTC A ATCC	ACA A ATTATA	COCOCADAAC	ATTC A CTCCTTA	ጥረማጣጥረ ጥር እ እ	7560

			836			
ATCATGAGAT	AATGTTGAAC	GACTAACGTA	AAGTTCATCA	GCTAAATCAT	CAAAAAGAAC	762
TGGAACTTGC	ТСАААТААТА	ATTTATTTAA	GATAAATACT	AAACGATCAT	CACCTTTTGA	768
AACCGCAGTT	TTCGTATAGT	CTTCTTCCAG	TTCATAAGTT	TGTCTAAACT	CCTGGTAAGC	774
GCCTTGATTC	TCAAAAAATA	TTTGATACCC	TTGACCTTGT	TTTGAAATCA	ACCGGACTCC	780
TTGAATAATC	ATTGTCTTCT	CAATTAATTT	CAGTACATTA	CGGACAGTTC	TATCTGAACA	786
GGATAAATAT	TCTGCCAGTT	CTTTGCTTGT	AACAAAACGT	TCCTTATTTT	TTATTAAAAA	792
TTGAAGGATA	TCTTTCTCTT	TAATGTTTAA	CACATTCATT	CCCTCCTAAA	ACGTATGTTT	798
TCATATATTG	AAGCATATTA	TACACTTAAA	TCAGTTTATA	TCAAACTCAA	AACAATTTAT	804
CTTAACCTAA	ATATTTATTG	ACATTTCATG	TGTTCATCAA	ATATTCTCAA	GAATCAAATT	810
AGCCATTTTT	TCAATTCCCA	TTGGAATAGG	AATATAGGCT	TGAGGAGGTA	TTTGTACAAC	816
TGGTTTTCCT	GCTTTAGAAC	CAGCCTCTTC	AAATTGCTTA	AAGTACATTT	TTGTTTGAGG	822
ACTGACAAGA	TACAAATCAA	AAGCTGCTGC	TGCGATAGCT	TTCCCTCCTT	CAGTAGCACT	828
AATAGCATCA	ACTACAATAT	CTTTCCCTTT	TCCTTTTAGA	AACTCTGTTG	TTTTCTGTGC	834
CATAAGTGAT	GAAGACATTC	CTGCTGCAČA	AAĢTTAATAA	GCTTTTGCCA	TAATATTTC	840
<b>TCCTTTTCTT</b>	AAATCCAATC	AAAGCTGTGC	TAAGTTGGCT	TATTTGTTAT	CTATTTTTAT	846
<b>AATAAATAT</b>	AGCGTTTCCA	ATGACAATTC	CCTCATTTTC	CTAAATGATA	TGGAAAAAA	852
PTATTTATAC	TTCAATTTAT	TAAAATAAAA	TATTCCTGAG	AGTAGAAATG	AAACACTATT	8586
TGCTAAAATC	AAAGGCAAGT	CTCCTATACG	AATACCATGA	GCAAGCCACA	ATGCAATACC	8646
AATAACTTGC	ATAACATACA	TACCTAGAGC	AATAGATCCT	GTGTCCTTTG	TCTTAACTAC	8700
ACGAAAAACT	TGTGGTAAAA	ATGCAAATGT	TGTTAAAATT	GCTGCAATAC	TTCCAATCAT	8760
ATGTCACCTC	AATATGCTAA	ACAAACTGAG	AATAATCTCA	GTTTGTTTAT	ACTATTCTAC	8820
<b>PGATTCACCG</b>	TTAGATGAAA	TAACTTCCTT	ATACCAGCCA	AAAGATTTTT	TCGGGGAACG	888
АТТАТААСТТ	CCCTTCCCAT	TATCATCTTT	ATCTACATAA	ATAAAGCCAT	AACGTTTCCG	8940
CATTTCACCG	GTACCAGCTG	AAACCAAATC	AATACATCCC	CATGGAGTAT	AACCCATTAA	9000
ATCAACACCA	TCTTCAACTA	CAGCCTTTTT	CATTTCACGA	ATATGGGCAC	CTAGATATTC	9060
AATTCTATAA	TCATCATGTA	CCATACCATC	TGCTGCAACT	TGATCTATAG	CTCCAAAACC	9120
ATTTTCAACA	ATAAAGAGTG	GTAAGTGATA	GTGGTCTGTA	AACCAATTTA	ACGCATAACG	9180
CAAACCTTCT	GGATCAATTT	GCCACTCCCA	TTCAGAAGCC	TTAACATAAT	TATTTTCAC	9240
TOTTOTAAAT	GTTTCAAGAT	AATCAAAATA	AGGATTATTT	TCACGATGAG	AGTCGATAGC	9300
AAAGGACATA	TAGTAACTGA	AACCAATGTA	ATCTACAGTC	CCACCAAGTA	AATCTTCTTT	9360

9420	AAATATGCTC	CAATACTTGA	TTTTCGTTCC	CTGAAATACC	GTAAAATCAA	ATCCTGGGCA
9480	TAGCTTTCAT	CGCTTCTGCA	ААААТААТАА	GCACATCAGC	CCTAAAACAT	AGGATATTTA
9540	TCGCAATCAT	ATTGGACACA	AACTGGATAA	GATTGCAAGT	ATATCCTTAG	TGCCATTAAG
960,0	GTGCAGAAGC	TTTACAGCTC	ATGACCAATT	GATTAATCTC	TGAAAATCTG	ACAACCTATT
9660	CTTCCTCATA	CTATTATCAC	AATTGCTTCT	CTTGATACAT	TAATGTGCTG	AACTAATTCG
9720	GATTATTGAT	TAATTCGCTT	ATCTTCCTGA	ATGGTGCAAA	GAGTTAGTAA	TACAATACCT
9780	CGACTTCTGC	CGTTTAAATA	ATCTTTGTAA	ATTTAACCTT	GTCATCCAAT	TTCATTGAAA
9840	CGGTCACTAA	CCACCATATT	ATTTTTCCAA	TCAATTTCCT	AAGAAATCAA	AAAACGAGCA
9900	TCTTTAAGCA	TCAATACCAT	GATGACAGGT	GAGATAGAGT	ATTTCAAAAT	GTGATAAGGC
9960	ACTCATCACC	TTCGGCTCTA	TCCTTCTTCA	AAAACTGTAA	AGATTATCAT	ТТСАТСАААА
10020	CCATTTCAGC	CACTTGAATC	GGTACGGAAG	ATGCAATAGA	ATACGTGTCC	TTTTGGAAAG
10080	GATTTGGATA	ATCGCCTCAT	ATAAAAATCT	TATAACGGTG	ATATCTTCTT	AAAAAGTGCT
10140	GACCAGCAGT	ACTCCATGAC	TTCACGAGCT	CCAAAGTAAT	TCTAAAACTC	ATATTTACCC
10200	CAAGTTGATG	CATCCACCTT	ACCTTCTTGC	TTCCCTTGCC	GCAACACTAA	CATAACATCA
10260	TTTTTCCTCC	GTAGTCATCT	ATCTTTAAAA	ATAAAAATCC	GCACCACCCC	AGCAGCAACA
10320	TCTTTTTCCT	GAAAACGCAT	ACCAAAAGAT	TAAACCTTAA	АСТСТТАТТА	TGACTTTGAT
10380	TGTATTCTCG	AATATCTTCT	GAAATAGAAC	ATTTTTAATG	GAAAGAAGTA	TATTGTTAAG
10440	AATAATTCTA	AAACTCTCAC	CAAACTACAA	TCAATACTTT	TTTACGATTT	TAATGATATC
10500	CTTCTATATA	CCAGAATCAT	TTCTGGCATC	ACTTATCGCT	TCTATAAACG	ATTCCCTGTG
10560	TCTGCATTGT	TCTAAGATTT	TTTTCTTAAA	AGTGATATTT	TGCATCTGCA	ACGTTCAACT
10620	TAAGGAGAAT	CACTGATCAA	TTGATTTATC	CTAAAGTTTC	TAATGTTTAT	CTTTGATTGA
10680	TTTGATTTCT	AAGTTACCTT	TTCGTATTTC	GTAAAAAATA	TTTTCAATTG	AGTTCCCTCT
10740	CACTATCTCC	AACTTTATTG	TTCTCTTGCA	TATCAAGCAT	ACAAGGCCAC	AATTTCTTTA
10800	AATCATCCTT	TATCCTCCAA	TGTCATCTTA	GAATAGTCAA	TAATATACAT	ATCACCTTTA
: 10860	ACTAATTATC	TTTTTTATGA	TCTAAACTTG	TAGATGAGGA	AAAACAAGTT	CAATTTTAAA
10920	TTTTCTTATA	TAAAATGATT	TTTATACCAA	CAATCACTTC	CCATTACTTT	TAACGTTTCG
10980	GGTATTGCAA	CCTCATAAAA	GACAAAAGAG	ACAAGAGCAG	GTCAATTGAA	GCGATTTATA
11040	AATAGGATTG	ATGTTTTCTC	ATATGAGCCC	GTGCTTTTTG	CCTTTTTGAG	CTTGGTAATA
11100	ACACAAGAGT	CAAACTCTTC	AGTTTATACC	AAGAGGTAAA	AGTAGGGAGG	TACTCAGGTG

838
TCTAGCTTCC CCATTCTATG GAATCTTGCA TTATCCATAA TAATAACCGA TGGTGTGGTT 11160
AATGTTGGTA AGAGAAACTT CTGAAACCAA GCTTCAAAAA AGTCGCTCGT CATCGTCTCT 11220
TCGTAAGTCA TTGGAGCGAT TAACTCACCA TTTGTTAGAC CTGCAACCAA AGAAATCCTC 11280
TGATATCTTC TTCCAGATAC TTT 11303

#### (2) INFORMATION FOR SEQ ID NO: 116:

#### (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 3112 base pairs

(B) TYPE: nucleic acid(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 116:

CCTTAGATTT CCACTTGCCA GAGGAATTGA TTGCCCAAAC GCCCCTTGAA AAACGTGATG 60 CCTCCAAACT CCTCATCGTC AACCGTGAGA CAGGAGAAAT GCAAGATAAA CATTTCCACT 120 CTATTATTGA TATGCTGGAA CCTGGTGATG CCCTTGTCAT GAACGACACC CGAGTTCTCC 180 CTGCCCGCCT CTATGGTCAA AAAGTGGAGA CAGGAGGTCA TGTGGAACTT CTCCTCCTTA 240 AGAACACTAG TGGAGACGAG TGGGAAGTTC TGGCTAAACC TGCCAAACGC CTCAAGGTCG 300 GTACTCGTAT CAGCTTTGGT GATGGCCGCC TCAGCGCTGT CGTTACAGAA GAATTGACCC 360 ACGGGGGACG CATTGTCCGC TTTGAATACC AAGGAATTTT CCTAGAAGTC TTGGAAAGTC 420 TGGGAGAAAT GCCTCTGCCA CCTTATATCC ACGAAAAATT AGATGACCGT GAACGTTATC 480 540 CCAAAGAACT GCTGGCAGAA ATCCAAGCTA AGGGTGTTCA TCTAGTCTAT CTGACTCTCC 600 ATGTCGGACT CGGAACCTTT AGACCTGTTT CTGTGGATAA TCTGGACGAA CACGAAATGC 660 ACTCAGAGTT CTATCAACTT TCTGAGGAAG CTGCTGCCAC CCTTCGCTCT GTCAAAAAAA 720 ATGGTGGTCG TGTCATCGCT GTCGGAACCA CTTCTATCCG CACCTTGGAA ACTATTGGTT 780 CCAAGTTTGA TGGGCAAATC CAAGCAGATT CTGGTTGGAC CAATATCTTT ATCAAACCTG 840 GGTATGAGTG GAAGGTCGTG GATGCCTTCT CAACCAACTT CCACCTGCCA AAATCAACTC 900 TGGTCATGTT GGTTTCTGCC TTTGCAGGCC GTGAATTAGT CTTAGATGCC TACCACCATT 960 CCATCCAAGA ACACTACCGC TTCTTCAGTT TTGGTGACGC CATGTTTATT TATTGAGAAA 1020 GAATTTCTCT AAATCTTCTA ATACCAATAA ATCGCTAAGA TATTATTTCA AAGAACATCT 1080 ACAATTGAAA CTCTAGCTAG CTGTAGAAGA GGCCTAGTAC ATTGAAATTA AAATGCTTCC 1140 CCCTAGCTTC GAAAATATTG CCATAGATTG CGTTGACTCT CCAAATTGAT TCATCTATAT 1200

TTTATTTCA	G CTTCCTATAC	TTTCTTCGCT	GTTTGTAAAT	CAAAATGCAA	GACACATGAG	126
TAGCACCAT	A TTTGTTACTC	TTATCTGTCC	TCTCAAGAGA	CTATTATGAG	TTATTTCAGA	132
ATCATTCACT	P ACTTTGACCC	TGACTCTCCT	TAGTCTCAAA	ATCAAAGACT	TATACTCTTC	138
AAAAATCTC	TCAAACCGCG	TCAACGTCAC	CTTGGATTAT	ATATGTGatC	TGaCTTCGTC	144
AGTTCTATC	r ACAACCTCAA	AGCAGTACTT	TGAGCAACCT	GCGACTAGTT	TTCTAGTTTG	150
CTCTTTGAT	TTCATTGAGT	ATTAAACAAA	AAGTGAACAA	ATCTGAATTC	TAATGTACAG	1560
AAGACTAGG	TTGTTCACTT	TTTTATAGTC	GCTATAAGAT	GACCTTATCT	ATAGCTTTTT	1620
TAATATATA	T ATATATTCAG	ACATACTATT	ATCAATTTTG	TCGCAGGGAG	GAATCTGTTA	1686
ACGCACCCAT	TCACCATTAT	CATTGACTCT	ATAGCCATCT	ATACTTGTAT	TGACCGCTAA	1740
CTCACCCGAT	GTATTTACAT	AATACCATTT	ACCACCAACT	TGGAACCATT	GATTGACTTT	1800
CATAGAACCC	TTGCTGTTGA	GGTAGTACCA	TGAACTATTA	ACTTGTACCC	AACCTGTTGC	1860
CATGGAACC	TCAGTATTAT	AAAAATACCA	CATACCATTT	TCTTGTTTCC	AGTCTGTTGT	1920
TGGAGCAACT	GCTTTAGCTG	GTTCTACTGC	TACATCTGTT	CCTTGGTTAG	ATGTAACAGA	1980
TACAGGATAC	GAAGGAATAG	ATGATTGCTC	AGGAACAACA	ACTTTTTCAG	GTTCTCTCGT	2040
CCCTCTCCTT	ATACGTCTTT	TTACCATCTC	TTTAGTAATT	TGACGAGAAG	TAGTTTCTTC	2100
AATTGTTCC <i>i</i>	TCACGTTCAT	CTACAGTATA	GATTGTAGTA	AGAGTAATTT	ACCAATTTCT	2160
CCTACTTCTT	CTACTTCTTG	ACTTTTATCA	AGAGTTGGGC	CATCGAGATA	TTCTGTTTCG	2220
ATTGGAATTI	CTTGGACAAG	AACTTGGGGC	TTGGTTCTTT	TTTTAACAAC	TCTTGTTTGA	2280
GAGTCTTTT	TTTGACTTAA	AGTACTCTCA	GTTACTTGTC	CACTCTTTCC	ATCTACATTA	2340
PAAGTTATCO	TTGTAACTGT	TTTCCCATTC	TTTCCTAGAG	TAATCTCTTG	CTCCTGTCCT	2400
GCAGAAAGGT	CATTGTCTGC	TTCATATTTA	GTAGCAAATG	GAACAAGAAC	TTCTTCAACC	2460
TTGCTTTTAC	CTGGAACTTT	GATAACTGTA	TCCGTGGCTT	CTTTTCTATC	AACAGTAACC	2520
I'GTTCGGTAA	CATAACCAGT	CTCTGGATTA	ACATCGTAGG	TCCTTGTCGT	AGTTACATAG	2580
CCATCCTCTC	CATCAATTGT	AACAGGATTT	TCACTACGGT	CTTTTGTTTC	ATCTTTTCA	2640
FAACGAATTC	GCGTACTTGA	AATTTTCTTG	GTTACTACCT	TAGGTTTAGT	CGCTACTTTT	2700
АСААТААТАТ	CCCCATTGTC	AGCGTCATCA	TACTCTATTC	CCTCTTCTTT	ATCTCTAGTA	2760
<b>CATCTCTGA</b>	CATATTGAAT	CCCATCAGCA	GCATGAACAA	AACTTGTATT	CAGATTCCTC	2820
CTAAAAATA	AGTTAGCCCG	ATTACCGCAG	AACCAAAAAT	CTTTCCGAGT	TTACGTATTG	2880
CATAGCGCTT	ATTAGTATTA	GATTTTGCCA	ТТАСАТССТА	CTTCTAGTAT	AGCATCTTTT	2940

840
CTATCAAACG TTAAACAATA TACGTTATAT ATAAAATAGA CTTAGAATGA TATATTGATT 3000
ATTGAACTAA CACTTTAACT ATATCGTAAT CAATCTCATA TATAAAGGAT TGCAGACATC 3060
TTATCTAAAT ACATGCGAAT ATATTTAGAT ACAAACATTC CAACTTGATA AT 3112
(2) INFORMATION FOR SEQ ID NO: 117:

(i) SEQUENCE CHARACTERISTICS:

(D) TOPOLOGY: linear

(A) LENGTH: 4327 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 117:

CCCAAAAATC TCTTCAAACC ACGTCAGCTT CGCCTTGCCG TAGTATGGTT ACTGACTTCG 60 TCAGTTCTAT CCACAACCTC AAAACAGTGT TTTGAGCATC ATGCGGCTAG CTTCTTAGTT 120 TGCTCTTTGA TTTTCATTGA GTATAAAAAC AGATGAGTTT CTGTTTTCTT TTTATGGACT 180 ATAAATGTTC AGCTGAAACT ACTTTCAAGG ACATTATTAT ATAAAAGAAT TTTTTGAAAC 240 TAAAATCTAC TATATTACAC TATATTGAAA GCGTTTTAAA AATGAGGTAT AATAAATTTA 300 CTAACGCTTA TAAAAAGTGA TAGAATCTAT TTTTATGTAT ATTTAAAGAT AGATTGCTGT 360 AAAAATAGTA GTAGCTATGC GAAATAACAG ATAGAGAGAA GGGATTGAAG CTTAGAAAAG 420 GGGAATAATA TGATATTTAA GGCATTCAAG ACAAAAAAGC AGAGAAAAAG ACAAGTTGAA 480 CTACTTTTGA CAGTTTTTT CGACAGTTTT CTGATTGATT TATTTCTTCA CTTATTTGGG 540 ATTGTCCCCT TTAAGCTGGA TAAGATTCTG ATTGTGAGCT TGATTATATT TCCCATTATT 600 TCTACAAGTA TTTATGCTTA TGAAAAGCTA TTTGAAAAAG TGTTCGATAA GGATTGAGCA 660 GGAAGTATGG TGTAAATAGC ATAGGCTGAT GTCCATCATT TGCTTATAAA GAGATATTTT 720 AGTTTAATTG CAGCGGTGTC CTGGTAGATA AACTAGATTG GCAGGAGTCT GATTGGAGAA 780 AGGAGAGGGG AAAATTGGCA CCAATTTGAG ATAGTTTGTT TAGTTCATTT TTGTCATTTA 840 AATGAACTGT AGTAAAAGAA AGTTAATAAA AGACAAACTA AGTGCATTTT CTGGAGTAAA 900 TGTCTTATTT CAGAAATCGG GATATAGATA TAGAGAGGAT CAGTATGAAT CGGAGTGTTC 960 AAGAACGTAA GTGTCGTTAT AGCATTAGGA AACTATCGGT AGGAGCGGTT TCTATGATTG 1020 TAGGAGCAGT GGTATTTGGA ACGTCTCCTG TTTTAGCTCA AGAAGGGGCA AGTGAGCAAC 1080 CTCTGGCAAA TGAAACTCAA CTTTCGGGGG AGAGCTCAAC CCTAACTGAT ACAGAAAAGA 1140 GCCAGCCTTC TTCAGAGACT GAACTTTCTG GCAATAAGCA AGAACAAGAA AGGAAAGATA 1200 AGCAAGAAGA AAAAATTCCA AGAGATTACT ATGCACGAGA TTTGGAAAAT GTCGAAACAG 1260

TGATAGAAAA	AGAAGATGTT	GAAACCAATG	CTTCAAATGG	TCAGAGAGTT	GATTTATCAA	1320
gtgaactaga	TAAACTAAAG	AAACTTGAAA	ACGCAACAGT	TCACATGGAG	TTTAAGCCAG	1380
ATGCCAAGGC	CCCAGCATTC	TATAATCTCT	TTTCTGTGTC	AAGTGCTACT	AAAAAAGATG	1440
AGTACTTCAC	TATGGCAGTT	ТАСААТААТА	CTGCTACTCT	AGAGGGGCGT	GGTTCGGATG	1500
GGAAACAGTT	TTACAATAAT	TACAACGATG	CACCCTTAAA	AGTTAAACCA	GGTCAGTGGA	1560
ATTCTGTGAC	TTTCACAGTT	GAAAAACCGA	CAGCAGAACT	ACCTAAAGGC	CGAGTGCGCC	1620
<b>PCTACGTAAA</b>	CGGGGTATTA	TCTCGAACAA	GTCTGAGATC	TGGCAATTTC	ATTAAAGATA	1680
TGCCAGATGT	AACGCATGTG	CAAATCGGAG	CAACCAAGCG	TGCCAACAAT	ACGGTTTGGG	1740
GGTCAAATCT	ACAGATTCGG	AATCTCACTG	TGTATAATCG	TGCTTTAACA	CCAGAAGAGG	1800
TACAAAAACG	TAGTCAACTT	TTTAAACGCT	CAGATTTAGA	AAAAAAACTA	CCTGAAGGAG	1860
CGGCTTTAAC	AGAGAAAACG	GACATATTCG	AAAGCGGGCG	TAACGGTAAC	CCAAATAAAG	1920
ATGGAATCAA	GAGTTATCGT	ATTCCAGCAC	TTCTCAAGAC	AGATAAAGGA	ACTTTGATCG	1980
CAGGTGCAGA	TGAACGCCGT	CTCCATTCGA	GTGACTGGGG	TGATATCGGT	ATGGTCATCA	2040
GACGTAGTGA	AGATAATGGT	AAAACTTGGG	GTGACCGAGT	AACCATTACC	AACTTACGTG	2100
ACAATCCAAA	AGCTTCTGAC	CCATCGATCG	GTTCACCAGT	GAATATCGAT	ATGGTGTTGG	2160
FTCAAGATCC	TGAAACCAAA	CGAATCTTTT	CTATCTATGA	CATGTTCCCA	GAAGGGAAGG	2220
GAATCTTTGG	AATGTCTTCA	CAAAAAGAAG	AAGCCTACAA	AAAAATCGAT	GGAAAAACCT	2280
тооталаст	CTACCGTGAA	GGAGAAAAGG	GAGCTTATAC	CATTCGAGAA	AATGGTACTG	2340
<b>PCTATACACC</b>	AGATGGTAAG	GCGACAGACT	ATCGCGTTGT	TGTAGATCCT	GTTAAACCAG .	2400
CCTATAGCGA	CAAGGGTGAT	CTATACAAGG	GTGACCAATT	ACTAGGAAAT	ATCTACTTCA	2460
CAACAAACAA	AACTTCTCCA	TTTAGAATTG	CCAAGGATAG	CTATCTATGG	ATGTCCTACA	2520
STGATGACGA	CGGGAAGACA	TGGTCAGCTC	CTCAAGATAT	TACTCCGATG	GTCAAAGCCG	2580
ATTGGATGAA	ATTCTTGGGT	GTAGGTCCTG	GAACAGGAAT	TGTACTTCGG	AATGGGCCTC	2640
ACAAGGGACG	GATTTTGATA	CCGGTTTATA	CGACTAATAA	TGTATCTCAC	TTAGATGGCT	2700
CGCAATCTTC	TCGTGTCATC	TATTCAGATG	ATCATGGAAA	AACTTGGCAT	GCTGGAGAAG	2760
GGTCAACGA	TAACCGTCAG	GTAGACGGTC	AAAAGATCCA	CTCTTCTACG	ATGAACAATA	2820
GACGTGCGCA	AAATACAGAA	TCAACGGTGG	TACAACTAAA	CAATGGAGAT	GTTAAACTCT	2880
TATGCGTGG	TTTGACTGGA	GATCTTCAGG	TTGCTACAAG	TAAAGACGGA	GGAGTGACTT	2940
GGAGAAGGA	TATCAAACGT	TATCCACAGG	TTAAAGATGT	CTATGTTCAA	АТСТСТССТА	3000

			842			
TCCATACGAT	GCACGAAGGA	AAAGAATACA	TCATCCTCAG	TAATGCAGGT	GGACCGAAAC	3060
GTGAAAATGG	GATGGTCCAC	TTGGCACGTG	TCGAAGAAAA	TGGTGAGTTG	ACTTGGCTCA	3120
AACACAATCC	AATTCAAAAA	GGAGAGTTTG	CCTATAATTC	GCTCCAAGAA	TTAGGAAATG	3180
ggagtatgg	CATCTTGTAT	GAACATACTG	AAAAAGGACA	AAATGCCTAT	ACCCTATCAT	3240
TTAGAAAATT	TAATTGGGAA	TTTTTGAGCA	AAAATCTGAT	TTCTCCTACC	GAAGCGAACT	3300
AGAGAGATGG	GCAAAGGAGA	GATGGGCAAA	GGAGTTATTG	GCTTGGAGTT	CGACTCAGAA	3360
GTATTGGTCA	ACAAGGCTCC	AACCCTTCAA	TTGGCAAATG	GTAAAACAGC	GACTTTCCTA	3420
ACCCAGTATG	ATAGCAAGAC	CTTGTTGTTT	GCAGTAGATA	AGGAAGATAT	CGGACAGGAA	3480
attattggta	TAGCTAAAGG	AAGCATCGAA	AGTATGCATA	ATCTTCCTGT	AAATCTAGCA	3540
GGTGCCAGAG	TTCCTGGCGG	AGTAAATGGT	AGCAAAGCAG	CGGTGCATGA	AGTTCCAGAA	3600
TTACAGGGG	GAGTTAATGG	TACAGAGCCA	GCTGTTCATG	AAATCGCAGA	GTATAAGGGA	3660
PCTGATTCGC	TTGTAACTCT	TACTACAAAA	AAAGATTATA	CTTACAAAGC	TCCTCTTGCT	3720
CAGCAGGCAC	TTCCTGAAAC	AGGAAACAAG	GAGAGTGACC	TCCTAGCTTC	ACTAGGACTA	3780
ACAGCTTTCT	TCCTTGGTCT	GTTTACGCTA	GGGAAAAAGA	GAGAACAATA	AGAGAAGAAT	3840
PCTAAACATT	TGATTTTGTA	AAAATGGCTC	TTTGTCAACT	GTAGTGGGTT	GAAGTCAGCT	. 3900
<b>AGCTCGAGA</b>	AAGGACAAAT	TTTGTCCTTT	CTTTTTTGAT	ATTCAGAGCG	ATAAAAATCC	3960
GTTTTTTGAA	GTTTTCAAAG	TTCCGAAAAC	CAAAGGCATT	GCGCTTGATA	AGTTTGATGA	4020
GATTATTGGT	CGCTTCCAAT	TTGGCGTTAG	AATAGTGTAG	TTGAAGGCCG	TTGACGATTT	4080
CTCTTTGTC	CTTTAGAAAG	GTTTTAAAGA	CAGTCTGAAA	AAGAGGATGA	ACCTGCTTTA	4140
SATTGTCCTC	AATGAGTCCG	AAAAATTTCT	CCGGTTCCTT	ATTCTGAAAG	TGAAACAGCA	4200
GAGTTGATA	GAGCTGATAG	TGATGTTTCA	AGTCTTGTGA	ATAGCTCAAA	AGCTTGTTTA	4260
AATCTCTTT	attggttaaa	TGCATACGAA	AAGTAGGGCG	Ataaaaatgt	TTATCGCTGA	4320
STTTACG						4327

# (2) INFORMATION FOR SEQ ID NO: 118:

### (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 3521 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 118:

CTCTGGCCCT GCCACTCCAA CGTTTTGTCA GGGTGCTTTT TTCATAAAGG AGTTCTTATG

120	AGCTACACGT	CAGAAAAATT	GAAGCTGTCG	TACAGATTTT	AACGTATTCG	TTAGATATCA
180	TCGTAACATC	ATGCTAAACG	AAAGAAATCG	GAATGAAATG	CTGCTGTCTT	GGTGTAGATG
240	GATTGCCCAA	TTTCTGCTGA	CGTAACACAG	CAAAGCAGAA	TTGAAACTCT	PTGGTCAAGG
300	TCTATCTGCT	CCATGCAAAA	AAGATTGCTG	TACAGATGAC	ACAAGGAAAA	GCTAAGCGCA
360	AGAATTTACA	CTAAATTGAC	GAAATCGATG	TGAATTGGCA	CCTTGGATGC	GAGGTTAAAG
420	AGACGACAAT	GGGCTGACGA	GTTCCTGTTG	AGCTGACAGC	CAAATATCCC	ACGACTCTTC
480	AGCTCACTGG	TCGAACCTAA	GAGTTTGACT	TACTCCACGC	GCCGTTGGGG	GTGGAAGTTC
540	AACAGGCGCT	GTGGTAAGGT	TGGGAACGCG	TATCCTTGAC	AAGACCTTGG	GATCTCGGTG
600	CAACTTTATG	GTGCTATCTA	CGTTTGGAAC	CCTCGGTGCT	TCTATAAAGG	CGCTTCCTCT
660	AGTCAACCAT	CACCTTACAT	GAAGTCATCA	AGGCTATACT	ATGGAAAAGA	<b>TTGGATGAAC</b>
720	TGAACTCAGC	AAGATACTTT	AAATTTAAGG	TCAGTATCCA	TTGGTACTGG	GATTCTATGT
780	CTACCGTGAT	TGACAAACTA	GAAGTTCCTC	TCCAACTGCT	TTGTCTTGAT	GATACCAACT
840	GTCATTCCGT	CCATGAGTCC	TACTTCACTG	TCTTCCAATC	ACGGCAAAGA	GAAATCTTAG
900	CCAATTCCAC	TCCGTTTGCA	CGTGGCTTGA	TCGTGATACG	GTTCTGCCGG	PCTGAGGCTG
960	GGAAAAAATG	ACGAAGAATT	GAAGAATCTT	TGCCAAACCA	TGGTCAAATT	<b>AAGGTTGAAA</b>
1020	CGTTGCTCTC	CATACCGTGT	CTCAACCTTC	TCTTCAAAAA	CTGAAAACAT	ACAGCCAACG
1080	GTGGATTCCA	ACTTGGAAGT	AAGACTTACG	CTCAGCTGCG	ATATGGGCTT	rctactggag
1140	CCAAGCCCGT	CAGAAGATTT	TGTTCAAACA	AATCTCAAGC	ATTACCGTGA	GCACAAAACA
1200	TCATACCTTG	TGAAACTCCT	GATGGCAAGG	TGATGAAGCA	TCCGTTACCG	CGTGCCCAAA
1260	ТТАССААААТ	TTCTTGAAAA	GTGGCTGCAA	TGGACGTACA	GACTTGCAGT	ACGGTTCTG
1320	AGCTGAAGTC	ACATGGGTGG	CTTCGTCCAT	CCCAGAAGCA	CTGTGACCAT	SAAGATGGTT
1380	GTAACCAAAT	ACCTTTTTTC	TTCTAGCTAG	GTTTAGCTAT	AAAAAATAAG	TCAAACCAT
1440	CAGCCAATAC	ATAATGGTTT	AGTTAGGCAT	AGAATAAAAT	CCTAGTACAA	CAGATAAGCA
1500	AGGTCGCTGT	ATCTTGAGCG	TCCCTGAGCC	GTTTCAAAAT	AGAAATGGAA	CAGGTAATCC
1560	TTAAAATGTT	AAACCTTGTT	GGCTGGTTGA	GGGCTGAGAA	GGGAAGGTGA	SATAATGGTT
1620	TGACAATCAA	GCCAAAATCA	GGATTGAGAA	AGAAAAAGAA	GTTAAAACAA	GGCAGACGA
1680	GTAGAGAGAA	GAAGCCAAGA	TCGAACTAGA	TTCCTCCTAC	GGCAGGCTGG	SACCCAAGTC
1740	GTTTCTTTAA	GGGAGTGGAT	CAAGGCTAGT	CTTGTCCAAG	TAGATTCCTT	GGAGCACAG
1900	ጥር እ አርርጥርርር	24447244	GGTCAAGAGA	AGAGATAGAA	ATAAGGGGAT	TCGCTATAA

844 ATAGGCAATT TCGATAATAC CTACCAGAGG ATAGGTCAAG GCAGCCACTG CTATCCCCAC 1860 ATAGAGAACC GTCCAGCTTG GAGTGGCATG AACCCTCCGC CCTGGACAAG CAAACTTGAT 1920 GGTAAAACCA GCAATCAAGG TCAAATCCAA GAGAAATGAA AACCACCAAA TCCCTTGTGC 1980 TACCAAAGGA AGATAAGAGA ATACGCGAAA GACATAGGTC GATAAAATCA TCCCAGCCAT 2040 AGGAAAGGTT GCCATTCCTG ACAAAAGAGG GGGCTTGGTC AATTCTTGCT TGGTTTCTTT 2100 2160 AAGATGGGAT AGAACCGGCA ACGTATCTAA AATAAGATTT CCAGCTCCTG CCAAACCTAG 2220 CAAACAACCT GAAAATACTA AGGGGAGTTT TTTCATCCTA ACCTCCAATA ATCATGTTAG 2280 TTTCAGTATA ACATAAAAGC GCTTAAATGA GGATTTAAAA AAACGAGTCC GCTTATTTCA 2340 GACTTCATTT TACTCAGATA TGAATTAGGC ATAAGGTTGC AATTCTGGAT TAATTGGTGT 2400 ATTAGCTAAG TTGTTGGCAT AGTTACAGAG GATTGCTAGG CTGACACCAA AAACCACATC 2460 CAAGGCATTT TGTTGAGTGT AGCCAGCTTC TAAAAACTCA GACAAGGCTT CATCTCCTAC 2520 ACGACCCTTG GTATTGATAA CTGCCAAGGT AAACTTAGCT AGGGTATCCA ATTTAGGATC 2580 TGTTTCAATT GGAGTACGAT TGCGAAGAGC TTGAATCAAG TCATCATTCA TCTGGATTTG 2640 TTTGATGGAA AAGGCTGTGT GACCTGCGAC ACAGAAGGCA CAACCATTGG TCACGGCTGC 2700 CGTGATTTGC ACCACTTCAC GCTCAACGGG TGTCAGGCTG TTGCGACGGT GGATAGATGA 2760 GACAATTTGG TAGGCTTCTA AAACAGTCGG GGCATTGGCC AAGAGACCGA TTAGGTTGGG 2820 AATATAGCCA TTGTTGTCTT TTTCTACTGT TTCAAGAATT TCTTTCACTT CTGCTGGTGC 2880 TGACTCTACT GTATGGATAG TAAATGTTGT CATAAGATAC CTCTTTTCTT ATTATTGACA 2940 CTAATATTAT TGGAAAATCT TATAAAATCC TGATTCCTAA GTTTATCTAA GATAAAGCTT 3000 TATTCTCTCA TAAGATTTTC GTTGTTATAT TAGTTTATCA CACTTCCAAT CACTTGTATA 3060 ATATATAT TATATCAGGC TGATAAAAAT TATTTATAGG CAAAAAAATC ACACGAGCTG 3120 TGTGATTCCA TTATTTGTCA AAATACTTTT TAGTTTCAGC AATAACGACT GGCGACAAGA 3180 CCAAGAGGGC AATCAAGTTT GGCAGAGCCA TCAAGGCGTT AACGATATCT GCGATAATCC 3240 AGACCATATC CAACTCGATA AATCCTCCTA ACAAGACCAT GAGCACAAAA ACCACACGGT 3300 AGAGCCAGAT AAAGCGAACC CCAAAGAGGA ACTCAAAACA GCGTTCTCCG TAATAGTTCC 3360

AACCTAGAAT CGTTGTAAAG GCAAAAAGTA CAAGGAAGAT GGTCAAGAGA GCAGGCCCAA

AGTGTGAAAA GTTTGTTGAG AAAGCTGACT GAGTCAAGGC AACCCCATTC AAGTCACCGC

3420

3480

3521

TCCAAACTCC AGTTACCAAG ATGGTCAAAC CAGTTAGAGT A

<sup>(2)</sup> INFORMATION FOR SEQ ID NO: 119:

845

# (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1968 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 119:

AACCTGGGCA	AGCAAGCTAA	AAGCAATGGG	ACCTGGAATC	CTAATGGCAA	CTGCCGCTGT	60
TGGAGGTTCC	CACATTGTAT	CCTCAACTCA	AGCTGGCGGT	TCTTACGGTT	GGTCTCTACT	120
TCTCTTGGTC	ATCTTAGCCA	ATGTCTTTAA	ATATCCATTT	TTCCGTTTTG	GTGCTGAATA	180
CACAGCTGAT	ACTGGAAAGA	CTTTGGTTGA	AGGTTATGCC	GAAAAAGGAA	AACTCTATCT	240
CTGGATTTTC	TTTATCCTCA	ATGTCTTTTC	GGCTATGGTC	AACACGGCTG	GTGTTGCCAT	·300
TCTGTGCTCA	GCTATCATCG	CCAGTGCCTT	CCCAATGATT	GGACTTAGCA	TTACTCAGTG	360
GTCCCTCATT	CTCGTTGCAA	TCATTTGGGC	TATGCTACTC	TTTGGAGGCT	ACAAACTTTT	420
AGACGGCATG	GTCAAATGGA	TTATGTCTGC	CTTAACCATT	GCGACTGTTC	TTGCAGTTAT	480
CATTGCGGCG	GTCAAGCATC	CAGAATACAG	TTCTGATTTT	GTCGAGAAGA	CACCTTGGCA	540
AATGGCAGCT	CTGCCCTTCA	TCGTCTCCCT	CCTAGGATGG	ATGCCGGCTC	CTATTGAAAT	600
TTCAGCCATC	AATTCACTTT	GGTCAGCTGA	AAAGAGAAAG	ACCGTCAACT	TTAACACAGA	660
AGACGCTCTG	TTTGACTTTA	ACACTGGTTA	TATTGGAACA	GCTATCCTAG	CCGTCTTCTT	720
TGTGGCACTG	GGAGCACTGA	TTCAGTATCC	TACAGGGCAG	GCGGTTGAAG	CTGCTTCAGC	780
CAAATACATC	TCTCAATTCG	TGGGCATGTA	TGCCTCTGTT	CTTGGCGAAT	GGTCCCGTTA	840
CTTGATTACC	TTTATTGCCT	TCCTCTGTAT	CTTTGGAACA	GTTATAACTG	TTATCGATGG	900
CTATTCTCGC	GTTAATCAGG	AATCTCTCCG	ACTGCTAATC	AGTCAAAAAG	AGGACAATCG	960
TAAATCTTTG	AACATCTGGA	TGACCATCAC	TGCTATCATC	GGTATCGTCA	TTATCAAGTT	1020
CTTCGCTGGT	CAGGTTTCAA	CCATGCTCCG	CTTTGCCATG	ATTGGCTCTT	TCCTGACAAC	1080
ACCTTTCTTT	GCTCTTTTGA	ATTACGCCTT	GGTAACGCGT	GAAAACAAAA	ATCTTCCTTC	1140
TTGGCTCAAA	CACCTTGCCA	TTGCGGGATT	GATTTTCCTC	TTTGCTTCGC	CATCTTCTTT	1200
ATCTACGCAC	TCGCAATCGG	AAAAGCAGGG	TAAGGGACAA	GCGCGAGATG	AAGATAAGGT	1260
TTCATTTCAA	GAGAAAATTC	AGCAAATATT	TCTATGATAA	AAAGCATAAG	AACAAGGTTT	1320
TGAAGACCTG	AACTTATGCT	TTTTTACGTT	CTTAAAGACT	GTTTATACTC	AAAAAACAGT	1380
TGAACAACTT	CAACCACCTC	TTATAAGAAC	TTTATACTAT	TCGAGAATCT	CTTCAAACCA	1440

CGTCAGCT	СТ	ATCTGCAACC	TCAAAGCTGT	846 GCTTTGAGCA	ACCTGCGACT	AGCTTCCTAG	1500
TTTGCTCT	TT	GATTTTCATT	GAGTATTAAT	TCTCCTTTTC	CAACTCATAC	AAATCTGCGA	1560
TAATAGCT	GC	GACATGTTTG	ATATCTTCCA	GCATGCCTCG	CATTTCAAAG	TCAGCCAATA	1620
CAGGGAAG	CC	AAAGCGTTGA	CTGTATTGCT	TGGCTGTTAG	GCAGTATTGG	TTATTAAAGT	1680
TACGATTT	CC	TGACCCAACC	ACACCAAAAC	ACTTACTAGC	ATTGTTACCA	TAGGCAATAA	1740
AATCTCCC	AC	CGGTGTCGTC	AAAATCTCAA	CATCTCCGTT	ATCCACGCCA	TTCCCACCTT	1800
CGAGATAG	GT	CGGCAAAAAA	GCGACATAGG	GATGGTCCAT	TTCATAGAAA	TTTTTGCCTT	1860
CCTTGACC	AA	ATCCTTGATA	TGAATCTTTT	GAACCTCAAT	CCCTTTGTAC	TGGGACAAGA	1920
GATAGTCT	ΤT	CAAGCGCGTC	ACAAAACTTT	CAGTGTTGCC	ACTCAAGG		1968

### (2) INFORMATION FOR SEQ ID NO: 120:

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 7172 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double
   (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 120:

CCGCATTTTT	TATCACTAGA	CTCGAGACAT	CTTTTGAGTG	GCTCTTGCTC	TCTGGTTTAA	60
TTTTCTTCCT	TGCTCAAGGA	CTCCTGCTAT	TTCTCTTGGT	CGTCCGACTC	АААСАТСААТ	120
TCGCTGAGAT	TTATCCTCAA	ATCAATAAAA	AGATTCGCTT	СТАСТАТТТА	GGGGTTCTCA	180
CCATTGATTT	TCTATTTTTT	GTTCTCTTAG	CCTTCATTAG	TTCTCAGCGT	TTTTCATCTC	240
TTATGCCAAT	CATCACTGCT	TGCCATTCTA	CTTTTTATTA	TATGACAGCT	GACTACCTAA	300
GAGAAAACTA	TCCAGACTTT	TACGACAAAC	ACATCTCTTT	ATGGGAGTGT	CTCTAAAGAA	360
AAGGAGGTTT	TAGCATGAAA	AAAATCATCT	TCATCAAAAC	CATTCAACTC	CTTGTCATTG	420
ATGGAATCAT	GCTGGCATTT	TTGACATTTA	AAAGGGGGCT	TACTTGGGAC	TGGATTTTGA	480
TTTATAGCGG	TTGGCTCATT	TTCTTTCATC	CTGTGCTATT	GACCTATCTT	TCAAACCAAC	540
TTTGTGACCA	CTTTAGTTAA	CTCTATTCCC	AGATTAGACC	GAGATTCTGG	CGTTTTGCTT	600
TACAAATTCT	CCTATGGGAT	AGCCTGATGA	TTCTCTCCTT	GGTGTCTTTA	AGTGATATTC	660
CACTTTTCCT	TCAGGGAACT	CTCCTCATCC	TAGGACATCT	CATCCCTTCC	TATCGCATCT	720
GCCAAAGCCT	GAAAAGAGAC	TTCCCCCAAG	CATATCAAGA	ACCGATTTCT	TTTTGGAGTA	780
TTTTATGATA	GATGAGAAAG	ACCAAGCCGA	CTGGGCTTGG	TCTTTCTTAT	CTCTTTTTAG	840
TATCTAGGAT	AATGGTAACA	GGTCCATTAT	TAACCAGCTC	AACCTGCATA	TCTGCTCCAA	900

AGATGCCTGT	CTGAACGGGC	ACTTCTTGCG	CTAATTTTTG	ATTGAAAGCA	TCATAGAAGT	960
CTGATGCCAT	ATCAGGTTTA	GCTGCCCCTG	TAAAGgCTGG	ACGATTGCCT	CTCTTAGTAT	1020
CCGCAAAGAG	GGTAAACTGA	GAAATAGAGA	GGATTTCTCC	TTCAATATCT	TTGACAGACA	1080
GGTTCATCTT	GCCTTCTGCG	TCTGAAAAA	TCCGCATATT	GACCAGTTTT	CTCACAGCAT	1140
AGTCCAAATC	TTCCTCTTGG	TCCTCTGGTC	CAACACCAAC	CAGCAATAAA	AGTCCCTGAT	1200
rgatt <b>tt</b> tcc	CTGAATCTGG	CCTTCTATAC	TCACTTGGGC	TTTTTTAACC	CGTTGGATAA	1260
<b>IGATTTTCAT</b>	AATAGCCTTT	CTAGTAAGAG	CTAGGACAAC	TAGCCGTTGG	TCCGTTTGAC	1320
AGAGTAAACT	TCTGGCACAC	TCTTAATTTT	ATCGACAACC	GTGGTCAGTG	TAGAGAGGTT	1380
GGCAATACCG	AAGgACACAT	GGATATTAGC	AAACTTCATA	TCCTTGGTTG	GTTGGGCATT	1440
GACCGTTGAA	ATATTCTTGG	TTGTATTTGA	AAGAACTTGC	AGTACATCGT	TCAACAGTCC	1500
IGTACGGTTG	AGACCGTAGA	TATCGATATG	GGCCATATAC	TCCTTATTTG	AGCTAGGGTA	1560
CTGGTCTTCC	CATTCCACAT	CAAGGAGACG	TTGCTCGTAG	TTTTCTTGGG	CACGCAGGTT	1620
CATACAGTCC	ACACGGTGAA	TAGCCACACC	ACGACCCTTG	GTAATGTAGC	CAACAATATC	1680
GTCACCAGGC	ACGGGGTTAC	AACACTTAGC	AATCCGCACT	AGGAGACCAG	AAGCACCTTC	1740
AATAACCACT	CCCCCTCAT	GCTTGACCTT	GAGGGTTTCT	TTÄTTTTCAA	CCTTGACCTC	1800
SCCACCTTTG	ACAAGCTCCT	CTGCCTCAGC	TTTGGCCTTG	GCACGCTCTT	CCTCACGGCG	1860
TTCCTTTTCA	GTCAGACGGT	TAAAGACGGT	AATCGCACCG	ATTTCCCCAA	AACCAATGGC	1920
CGCAAAGAGG	GAGTCTTCTG	TCTTGTAACT	GGTCTTTTGC	AGAACTTGAT	CCATGTGGCG	1980
CTTGTCCATA	AATTTATTTG	CCACATAGCC	ATTTTCTTGG	AACTGAGCCA	TCAGCATCTC	2040
ACGACCCTTG	TTGACAGACA	ATTCCTTATC	TTGGTTTTTA	AAGAACTGGC	GAATCTTATT	2100
CCCCCCTTC	CTAGTCTTGA	CCATATTGAG	CCAGTCACGG	CTAGGTCCAA	AGGAGTTCGG	2160
STTGGCGATA	ATTTCAACCT	GATCCCCTGT	CTTTAACTTG	GTTGTCAGTG	GAACCATGCG	2220
CCATTGACC	TTGGCACCAG	TTGCTTTTTC	ACCGACCTTG	GTATGGATTT	CGTAGGCAAA	2280
TCAATCGGT	CCTGAATCTT	TGGGAAGGGA	ACGGACAGCT	CCATCTGGGG	TAAAAACGTA	2340
ATCTCCTCA	GCCAAATAGT	TTTCCTTAAC	AGAGTCCACA	AATTCCTTAG	CATCATCAGC	2400
TGGTCTTGG	AGCTCCATCA	TCTCCTTGAT	CCAGTTCATT	CCAATAGCTG	ATTCCTTGCT	2460
STTAACTTGC	CCCTTTATAC	СТТТСТТАТА	AGCCCAGTGA	GCCGCAACCC	CGTACTCAGC	2520
ACCTCGTGC	ATTTCCTTGG	TTCGAATCTG	GAATTCAATC	GGCCCTTTTG	GTCCATAAAC	2580
GTCGTATGG	ATAGACTGAT	AACCATTGGC	CTTGCGGTTG	GCGATATAGT	CTTTGAAGCG	2640

			848			
ACCTGGCATC	GGTTTCCAAA	ATTCATGCAC	GTAACCAAGC	ATGGCATAAA	CATCACTTTG	2700
GGTATCTAAA	ATACAACGAA	TAGCAATCAG	ATCATAGATT	TCCTCAAACC	GTTTTCTCTT	2760
GTCCTGCATT	TTGCGGAAAA	TTGAGTAAAT	ATGCTTGGGA	CGACCATAAA	TCTTCCCTTT	2820
CAAGTGACGT	TCTGTCGTAT	ACTCCTCTAA	TTTTGTGACT	ACCTCATCCA	CCAAGGCCTC	2880
ACGCTCCCTG	CGCTTTTCCT	TCATCATATG	GGTAATCTTG	TAAAACTCCG	TTGGATTGAG	2940
ATAACGGAAA	GACAAGTCTT	CTAATTCCCA	TTTGACACTG	GAAATCCCCA	AACGATGGGC	3000
AAGCGGGGCA	TAGATTTCCA	TGGTTTCTTT	GGAAATACGC	TCCTGCTTGT	CTTTTCGAAG	3060
ATGTTTCAGG	GTCCGCATAT	TGTGCAAGCG	GTCAGACAGT	TTGACCAAAA	TAACGCGGAT	3120
GTCCTCAGAC	ATGGCCATGA	GCATCTTGCG	ATGATTTTCC	GCTAATTGCT	CCTCGATCGA	3180
TTTGTACTCG	ACCTTGCCAA	GCTTGGTAAC	TCCGTCAACA	ATCATCCGCA	CATCAGGACC	3240
AAACTCTCTT	TCCAAATCGT	CCAAAGTCGC	ATCTGTATCT	TCCACCACAT	CATGCAAGAA	3300
TCCACAAGCT	ACTGTTACAG	CATCCAGCTT	TAGCTTAGCT	AAAATACCTG	CCACTTGGAT	3360
AGGGTGAATG	ATATAAGGCT	CGCCTGATTT	GCGATATTGA	CCACTGTGGC	ATTCAACAGC	3420
ATAGACCAAG	GCCTTATGGA	CAAAATGAAC	ATCCTCTTCC	GTTAAATATT	CTTTGGTTAA	3480
AGCGACAACT	TCTTCGCCTG	TTAAATTCAC	TTCTTTCGGC	ATCTCTACTC	TCCAATTCTT	3540
CCTACCATTT	TATCACTTTT	TTAAGAATAT	GAAAACTAGA	TTGGAACAGA	ATAAGAAAA	3600
AATAATTCAA	AATTGCTTGA	TAATTCTGAA	TTATTGGTCC	GTAATATACT	ACGAAGTTAG	3660
ATTTTAAACT	TAGGTGATAG	AAGGAGAGAT	AGAAGAACGG	AAACCATATT	GTAACCCAAA	3720
GACTTTCTGA	CTTCCCCAAT	TCCATTGAAG	ATACGAAAGA	TAAACGGTGG	AACTCGTATC	3780
ACATACACTG	GTACCTTGAC	TGGATTTTGG	AATTAATACT	AAATGAAAAT	CAAAGAGCAA	3840
ACTAGGAAAC	TAGCCGCAGG	TTACTCAAAG	CACCGCTTTG	AGGTTGCAGA	TAAAGTTGAC	3900
GCGGTTTGAA	GAGATTTTTG	AAGAGTATAA	AAATCCTCAA	GATACTTTCT	TCTATCCTTT	3960
AGTTTATAAG	GAGAATACCT	ATGAAAAAA	CTGCTATTTC	TATCTTTGCT	CTCCTAATGT	4020
TAGGAGTTTG	CTGCCTGTTC	CTATTCAGCC	AGCAAAGCTA	TAAAAAACAG	TCGTTCAATA	4080
CTATGCTAAC	GACCAGAACC	TGCCCAGTAG	GATAACTTAT	AGTGAATATA	GCGACAAATG	4140
AGAAGCCAAC	TACGGTAGCA	CTCTAAACAT	CACGTCTATC	AAACAAGCTA	ATGACGGAGT	4200
TTATGCAACC	TATGAAGGGC	AATTGACACC	TTTCCAATAT	TGATAAATTG	ATAACCAGCC	4260
TGTCTTCATC	TAGTCATGCT	GGTTTTTAAG	TTCATTTTAA	ATCCTTACCT	ATTCTCCCTA	4320
ACTGTGCTAT	ACTTAATTTA	TACTCAATGA	AAATCAAAGA	GCAAACTAGA	AAGCTAGCCG	4380
CAGGCTGTTC	AAAGCACTGC	TTTGAGGTTG	CAGATAAAGT	TGACGCGGTT	тсаасасатт	4440

TTCGAAGAGT	ATTAGTACAT	TCTTTGAGAT	TGGAGCTAGT	ATGAAAATCC	ATAAAACCGT	4500
GAATCCTGTT	GCCTATGAAA	ATACCTATTA	TCTAGAAGGC	GAAAAGCACC	TCATCGTCGT	4560
CGATCCTGGT	AGTCATTGGG	AAGCCATTCG	TCAGACAATC	GAGAAGATCA	ACAAACCGAT	4620
CTGTGCTATT	CTCTTGACCC	ACGCCCATTA	TGACCATATC	ATGAGTCTGG	ACTTGGTTCG	4680
CGAGACGTTT	GGCAATCCTC	CTGTCTATAT	CGCAGAGAGC	GAAGCCAGCT	GGCTCTACAC	4740
TCCTGTCGAT	AATCTCTCCG	GTCTCCCTCG	CCACGATGAT	ATGGCAGATG	TGGTCACAAA	4800
ACCTGCAGAA	CACACCTTTG	TCTTTCACGA	AGAATACCAA	CTAGAGGAAT	TTCGTTTTAA	4860
GGTTCTACCG	ACCCCAGGGC	ACTCTATCGG	TGGTGTTTCC	CTAGTCTTTC	CTGATGCTCA	4920
TCTAGTCTTG	ACGGGAGATG	CTCTATTCCG	CGAAACTATC	GGACGGACCG	ACCTTCCGAC	4980
TGGTAGCATG	GAGCAACTCC	TTCATAGTAT	CCAGACCCAA	CTCTTCACCC	ТАССАААСТА	5040
CGATGTCTAT	CCAGGACATG	GTCCAGCTAC	TACTATCGCT	CACGAAAAGG	CCTTCAATCC	5100
CTTTTTCTAG	CAAGATGATG	ACAATCGAAA.	TTTAAGTAAA	CTATCCAGCA	AATCTTTCTA	5160
TTACAAAAGG	CATCCTATCA	AGGTTTTCAC	ACATGATTGG	ATGCCTTTTT	TCTGATGACT	5220
AGATTTTTTG	CATTACCAAA	TAATCACGCG	CTCCTCTGGT	GAACGCCACA	TTCCGTCTCC	5280
TTCTTTGACA	TCATAGGTTG	TAAAGAAATC	GTCGAAGTTT	GGTACTTGCA	CATTGACACG	5340
GAGTTTGGCT	GGTGCGTGCA	CATCGACGCT	AGCCAAAAGT	TTCATAAATT	CTGGTCGACC	5400
TTTCATGCGC	CAGATGCGAC	CGAAGTTGTA	GAAGAACTCT	TCTGCTGAGA	AGTCTGCTTC	5460
TCTCTTAGCT	GCTTCAAGCG	CTGCTGCGAT	TCCTCCCAAG	TCAGCCACGT	TTTCTGATAC	5520
AGTCAATTTA	CCGTTAATGG	TTGCTCCATA	AGAATCCTGT	CCATCAAATT	GGTCAATGAC	5580
TTTTTGTGTT	TTCTCCTTGA	AGGCAGCATA	GTCGCTCTCT	GTCCACCAAT	CCTTGAGGCT	5640
ACCATTTTCG	TCAAAGGAAG	CCCCGTTAGT	ATCAAAGGCG	TGGGAAATTT	CATGGGCAAT	5700
CACTGCCCCA	ATACCACCGT	AGTTAGCAGA	AGATGACTGA	TGCAAGTCAT	AGAAAGGCGC	5760
CTGTAAAATG	GCCGCTGGAA	AGACAATCAG	GTTCTTCTGA	GGATTGTAGT	AGGCATTGAC	5820
CATATGAGCA	GGCATGCCCC	ATTCCTTATA	ATCTACAGGC	TGGTTCCACT	TACTCCAACT	5880
GTGCTTGATT	TCCACACGCG	CAAAGGCTAG	AGCATTCTCA	AAAAGACTGG	CAGTTTCATT	5940
CACTACCTTA	TCCTTGTAAC	GTGCAGGCAA	TTCTTCTGGA	TAGCCAATAT	AAGGTTTGAT	6000
CACATTGAGC	TTCACGATAG	CCTGTTTACA	GGTTTCTGGA	GTGAGCCAGT	CATTCTTAAG	6060
CAGACGCTCC	TTATAAACAT	CAATCATGGT	TGCCACTTTT	TTCTCCACAT	CCGCCTTGGC	6120
TTCTGGAGAG	AACTTCTCAC	GGGCGTACCA	AAGACCCAGG	GCTTGCTTGA	AAGGTTCTTG	6180

PCT/US97/19588 WO 98/18931

TGCTAGATGA	TAAGCTGCTT	TGACCTTATC	850 TTTTGCCTCT	GGAACTCCAG	AAAGGGCACG	6240
GCTGTAGGCA	CCAGACAAAA	CACGGATATC	CTCTGTTAAA	TAGCTGGTTG	AAAGATTGAC	6300
AACACTCAAA	ATCAAGGTTG	CTTTAAGGAG	AGACCAGGCT	TCCTCACTGT	AGAATTGCTC	6360
TGCTGCTTGC	CAGAAACGTT	CCTCGTCTAC	AATAACCTTG	TCTGGTAATT	GCCCAATAAC	6420
TGCTTTGAAG	AAGTCATCCA	AAGGTAGGGC	AGGCGCGAAT	TTCTTGAAAT	CTTCGTAAGA	6480
atatggatga	TAGAGTTTAG	CATATTCTGA	ACTTTCTTCA	TTAGAGAGCA	CCACTGCCGC	6540
<b>AACTCGGCGG</b>	TCCAATTCAA	GTCTTTTTTC	TAGCAAGTCT	TCAATTTCTT	CATCAGAGAA	6600
ATCATAAGCC	TTGAGGAGAT	TTGCGCTGCT	TTCTTTCCAA	AGAGTCAAGA	GCTCTTCGCG	6660
CTGAGGATGT	TCTTCTGCAT	AGTAGGTCGT	ATCTGGCAAG	ATTGTGCTTG	GAGCGCTAGC	6720
CCATAGAACA	TTGATTCTAG	CATCCATAAA	GTCTGGCGAT	ACACCAAAAG	GAAGGAAGTT	6780
TGGTTTTCCT	GCAAGCTCAA	ACTCTGCTAG	TTTAGCTGTA	AAATCCGCAA	AAGTCTCCAA	6840
TTCTTGGAAT	TCTTTAAGGA	GTGGTAAGAC	AGGTGTGATA	CCGTCAGCTT	CTCTCTTGTC	6900
AAAATCACGA	ACTAGGCGGT	GGTATTTGAC	AAAGTTTTCC	AAGATAGCAT	CCTCAGGCAC	6960
TTCTTCACCT	GCTAACCACT	TGTCTGTTGT	CGCCAGCATC	AGGTCTTCAA	TTTCCTGGTC	7020
TAAATCAACA	AAACCTCCTG	TTTGAGACTT	ATCTGCTGGG	ATTTCAGCTG	TCTGTTGCCA	7080
TTCTCCATTG	ATAGCATCAT	AAAAATCATC	TTGATAACGT	GTCATCTTGT	TCTCGCTTTC	7140
ATTTGTATTT	GCATTTATCT	TAACAAAAAT	CG			7172
(2) INFORMA	TION FOR SE	Q ID NO: 12	21:			

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 4518 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double
   (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 121:

CGGGAAGTTA	TGCGATCTAG	ACTTCGTTCC	TGTACAGCTA	CTTTCTCAGG	TGGTCTTGTT	60
GTTTGTATGA	GTTTGTTTAG	AGAGGATCTT	TCTATGTCTT	TCTTTCTTAT	TTTTGTTTTA	120
TATGCTTTTC	TGATTTCTTA	TCTAATTTAT	GGTTATTTCA	GACTAAAAAG	GAAATACCGA	180
GTAGATGAAT	AGCAAGGTTC	TAGGTCTTCA	GATTGATTTT	TAGCACTCTT	GATAAAAGAG	240
TGCTAATTTT	TTGAGTTTTT	GTCTTGACAT	TCTCTTCTAA	GGGTGTATAA	TAGAATCATG	300
AGTTAGCACT	TGGATGCATT	GAGTGCTAAT	TGATCAGACA	GAGAGGAGTG	ATGAGATGGT	360
TACAGAGCGT	CAGCAGGATA	TTTTAAATCT	GATTATTGAC	ATCTTTACCA	AAACGCACGA	420

480	CCATTCGTAA	AGCAGTGCAA	TATTAACTCT	TGCAAGAGTC	TCAAAAGCCT	ACCTGTCGGA
540	CAAGTGGTCG	GCTCATACTT	GCTTGAGAAG	AACAAGGGTT	GAACTAGAAA	TGACATGGCG
600	TTGACCGGCT	TCACTGGATT	TGTGAAACAC	TTCAGTACTA	GTTGCTGGTT	GATGCCAAGT
660	TCAAATTGGA	CAGGAATTCT	AGCCTTTGAT	AGATTGTCAA	GAGGTATATG	GGCTGAAAAT
720	CGGTAGTGGC	AGTGGCTGTA	AACAGACCTG	CTAACTTACT	CAAGAGGCTG	GGATATTCTG
780	TTTTGGGGCA	GATATCGTTG	GACAGCCTTT	GGCAACGTTT	GAGCCGAGCA	ACTGGATGTT
840	GTCAGTTTCT	ACGGTTACTA	CGAGTCGCGA	TTACCCTAGA	TTGGCGGTAT	ACATACAGCC
900	TTCAGGAACG	AAGAGCATCA	GCTGAAACTG	AGGAGGATTT	AACTTCTTGC	GATTCCAAGG
960	TTCCGCAGAT	CGGACGGAGA	CTACAAGATT	TAGATATTCA	CACACCGTTT	TTTCCTCGGT
1020	ACATCTTTAA	CTCTTTGAAC	TGTCATCGAT	CAACGGATAA	TACTTTACAA	TATCCAGCGT
1080	ATTTTGCCAA	CATCTCTTGA	GGGCAAGGTC	TTGTGATGGC	AACGAAAACA	GGAAATGTTC
1140	TTCGTGAGGG	GCCTTGGAGA	GCAAAAGGTG	TTGACCAACC	TATCAGTTCT	TCTAGCAGCC
1200	CCTGTTTAGC	GGTCAAGAGT	TGTTGCAGAC	AAAATGTTCG	GATCAGATGC	GTTGCGTGAG
1260	GAATTCTAGC	CGGGGAGTTG	CATTCCTTAT	GTAAGTTCCT	GTAATCAGTA	TGACCTAGCG
1320	ATGTGGTCAA	AATCAAGTCA	ACAGCTAATC	TGGATTACCA	CCAGTTAATC	CATTATCGGT
1380	ATCATTACGA	CTCAGCAGTA	TTACCGCTAC	TGACAGATTT	ACCATGAAGT	CCGTGTTTTG
1440	AAAAAATGAA	CCCAAGATAT	GCGAACATGG	ATTAAAGGAG	GATTGAAATC	AGTACATTAA
1500	AACTCCTGAA	CTGAAGAAAC	GTGAAAACAG	AGAGGAAGTT	AAGTTCAAGA	GAAGTAGAAG
1560	ATATCTTCGC	TCGAAAACAA	GCAGATGAGT	AAATGAACGT	TGGACTTGGC	AAGTCTGAGT
1620	AAACTTGCAA	AAGAACGTCA	CGTGCCAATG	TATCCAACGC	AAATGCAAAA	GCTCATGCAG
1680	CCTTGAGCGT	CTCTTGACAA	ATCTTACCAT	GGCAAAAGCA	GCCAGGACTT	CGTTATCGTA
1740	GGTGCAAGAA	GCTTGGGGAT	GTGAAGAAGG	GACAGATGAT	TTGAAGGTTT	GCACTTGCAG
1800	TGGCGAATTT	TCGCAGCAGA	ATTGAAGAAA	AGAAGAAGGA	ACGCTTTGAA	AGCTTGATTC
1860	CCCAGTAGAT	ACGATGAACA	CTCCCAGCAG	CATCCAAACT	ACCATATGGC	GACCATAACT
1920	ACGCCCAGCA	ACCGCATCCT	AAACTCCATG	AAAAGGCTAC	AAGTCTTTCA	ACCATCGCTC
1980	AAAATAGGAG	GCTCGCAGTA	CCCGTAAAAA	AGATATAAAG	TGTATAACTA	ATGGTAGTGG
2040	GCTTAGGGCG	TTTACTCAGA	ATCTATCTTT	ACACAAGAAA	TGTTCGATGA	ATTGACGAAG
2100	GCAATCGCTA	TCAGAAAACG	AAGCAACTCG	ACGGTAGCTA	GGCAATTCTG	TGTTCGATTC
2160	TCGACTCCTC	AAAATCGATT	TCGTCGAAAT	TACTAACTCG	CTAGCTTCCT	TGGCGTTTGC

			852			
GTGTCGCAAT	TTACATAATA	GAAAACTTGT	CCGAAACGAC	AATAAACTAT	GAAGAAAGAT	222
AAAATATGTT	TGGCTTTGTA	ATAGTGAGCG	AAGCGAACCA	AACACGATAC	TCTTCGCCGT	228
GGCGCTATTT	GCGCAAATTT	TGAGACCTTA	GGCTCAAAGT	TTAGTCAAAG	AGATTGACGA	234
AGTCAAGCTC	TGACGCCGTC	GCCACTGTCG	CCACTTAAGA	AGAGTATCAA	AAAGAAAAAT	240
AGAAAATTAA	CTAACAAGGA	GAAAAACACA	TGTCTAAAAT	TATCGGTATT	GACTTAGGTA	246
CAACAAACTC	AGCAGTTGCA	GTTCTTGAAG	GAACTGAAAG	CAAAATCATC	GCAAACCCAG	252
AAGGAAACCG	CACAACTCCA	TCTGTAGTCT	CATTCAAAAA	CGGAGAAATC	ATCGTTGGTG	258
atgetgeaaa	ACGTCAAGCA	GTTACAAACC	CAGATACAGT	TATCTCTATC	AAATCTAAGA	264
<b>IGGGAACTTC</b>	TGAAAAAGTT	TCTGCAAATG	GAAAAGAATA	CACTCCACAA	GAAATCTCAG	270
CTATGATCCT	TCAATACTTG	AAAGGCTACG	CTGAAGACTA	CCTTGGTGAG	AAAGTAACCA	276
<b>AAGCTGTTAT</b>	CACAGTTCCG	GCTTACTTCA	ACGACGCTCA	ACGTCAAGCA	ACAAAAGACG	282
CTGGTAAAAT	TGCTGGTCTT	GAAGTAGAAC	GTATTGTTAA	CGAACCAACT	GCAGCAGCTC	288
PTGCTTATGG	TTTGGACAAG	ACTGACAAAG	AAGAAAAAT	CTTGGTATTT	GACCTTGGTG	294
GTGGTACATT	CGACGTCTCT	ATCCTTGAAT	TGGGTGACGG	TGTCTTCGAC	GTATTGTCAA	3000
CTGCAGGGGA	CAACAAACTT	GGTGGTGACG	ACTTTGACCA	AAAAATCATT	GACCACTTGG	.3060
PAGCAGAATT	CAAGAAAGAA	AACGGTATCG	ACTTGTCTAC	TGACAAGATG	GCAATGCAAC	3120
GTTTGAAAGA	TGCGGCTGAA	AAAGCGAAGA	AAGACCTTTC	TGGTGTAACT	TCAACACAAA	3186
FCAGCTTGCC	ATTTATCACT	GCAGGTGAGG	CTGGACCTCT	TCACTTGGAA	ATGACTTTGA	3240
CTCGTGCGAA	ATTTGACGAT	TTGACTCGTG	ACCTTGTTGA	ACGTACAAAA	GTTCCAGTTC	3300
STCAAGCCCT	TTCAGATGCA	GGTTTGAGCT	TGTCAGAAAT	CGACGAAGTT	ATCCTTGTTG	3360
GTGGTTCAAC	TCGTATCCCT	GCCGTTGTTG	AAGCTGTTAA	AGCTGAAACT	GGTAAAGAAC	3420
CAAACAAATC	AGTAAACCCT	GATGAAGTAG	TTGCTATGGG	TGCGGCTATC	CAAGGTGGTG	3480
<b>TGATTACTGG</b>	TGATGTCAAG	GACGTTGTCC	TTCTTGATGT	AACGCCATTG	TCACTTGGTA	3540
rcgaaacaat	GGGTGGAGTA	ТТТАСААААС	TTATCGATCG	CAACACTACA	ATCCCAACAT	3600
CTAAATCACA	AGTCTTCTCA	ACAGCAGCAG	ACAACCAACC	AGCCGTTGAT	ATCCACGTTC	3660
TTCAAGGTGA	ACGCCCAATG	GCAGCAGATA	ACAAGACTCT	TGGACGCTTC	CAATTGACTG	3720
ATATCCCAGC	TGCACCTCGT	GGAATTCCTC	AAATCGAAGT	AACATTTGAC	ATCGACAAGA	3780
ACGGTATCGT	GTCTGTTAAG	GCCAAAGACC	TTGGAACTCA	AAAAGAACAA	ACTATTGTCA	3840
rccaatcgaa	CTCAGGTTTG	ACTGACGAAG	AAATCGACCG	CATGATGAAA	GATGCAGAAG	3900
CAAACGCTGA	AGCCGATAAG	AAACGTAAAG	AAGAAGTAGA	CCTTCGTAAT	GAAGTAGACC	3960

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AAGCAATCTT	TGCGACTGAA	AAGACAATCA	AGGAAACTGA	AGGTAAAGGC	TTCGACGCAG	4020
AACGTGACGC	TGCCCAAGCT	GCCCTTGATG	ACCTTAAGAA	AGCTCAAGAA	GACAACAACT	4080
TGGACGACAT	GAAAACAAAA	CTTGAAGCAT	TGAACGAAAA	AGCTCAAGGA	CTTGCTGTTA	4140
AACTCTACGA	ACAAGCCGCA	GCAGCGCAAC	AAGCTCAAGA	AGGAGCAGAA	GGCGCACAAG	4200
CAACAGGGAA	CGCAGGCGAT	GAÇGTCGTAG	ACGGAGAGTT	TACGGAAAAG	TAAGATGAGT	4260
GTATTGGATG	AAGAGTATCT	AAAAAATACA	CGAAAAGTTT	ATAATGATTT	TTGTAATCAA	4320
GCTGATAACT	ATAGAACATC	AAAAGATTTT	ATTGATAATA	TTCCAATAGA	ATATTTAGCT	4380
agatatagag	AATTATATTA	GCTGAACATG	ATAGTTGTAT	CAAAAATGAT	GAAGCGGTAA	4440
GGAATTTTGT	TACCTCAGTA	TTGTTGTCTG	CATTTGTATC	GGCGATGGTA	CCGTATCTGA	4500
CGAACGTTCA	GCTTATAT					4518

# (2) INFORMATION FOR SEQ ID NO: 122:

# (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 8145 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 122:

TGCTATTTTC	GATTCCCTTG	GGCGTTTTGA	TTGCCTTTGC	CTTGCAAGTC	CATTGGAAGC	60
CCCTCCATTA	TCTGATTAAC	ATTTACATCT	GGGTTATGCG	AGGAACCCCC	TTACTCTTGC	120
AACTGATTTT	TATCTATTAT	GTGCTCCCAA	GTATTGGGAT	TCGTTTAGAC	CGCCTTCCTG	180
CAGCTATTAT	TGCCTTTGTT	CTCAACTATG	CAGCTTACTT	TGCAGAAATT	TTCCGTGGGG	240
GAATTGACAC	TATTCCAAGA	GGACAGTATG	AGGCCGCCAA	GGTCTTGAAG	TTTAGCCCTT	300
TTGACAGAGT	GCGCTATATT	ATCTTGCCCC	AAGTGACCAA	GATCGTTCTT	CCTAGTGTCT	360
TTAATGAAGT	TATGAGTTTG	GTCAAGGATA	CTTCTTTGGT	CTATGCTCTC	GGAATTTCAG	420
ACCTTATCTT	GGCTAGTCGA	ACAGCTGCTA	ACCGCGATGC	TAGTCTAGTT	CCTATGTTCT	480
TGGCAGGAGC	CATTTATTTG	ATTTTGATTG	GGATTGTGAC	AATTATTTCC	AAAAAAGTTG	540
AGAAGAAGTA	TAGTTATTAT	AGATAGGAGG	CTGCCATGTT	AGAATTACGA	AATATCAATA	600
AAGTCTTTGG	AGACAAACAA	ATCCTGTCTA	ATTTCAGTCT	AAGTATTCCT	GAAAAGCAAA	660
TCCTGGCTAT	CGTTGGACCT	TCTGGTGGAG	GTAAGACAAC	TCTTTTACGT	ATGCTTGCAG	720
GTCTTGAAAC	CATTGATTCA	GGGCAAATCT	TTTATAATGG	ACAACCTTTA	GAGCTGGATG	780

			854			
AATTGCAGAA	GCGCAATCTA	CTGGGATTTG	TCTTCCAAGA	TTTTCAACTA	TTTCCTCATC	840
TATCAGTTCT	GGAAAATTTG	ACTTTATCGC	CTGTGAAGAC	CATGGGAATG	AAGCAGGAAG	900
aggetgagaa	GAAGGCGAGT	GGACTCTTGG	AACAGTTAGG	ACTAGGAGGA	CACGCAGAGG	960
CCTATCCTTT	CTCACTATCT	GGTGGGCAAA	AGCAGCGGGT	GGCTTTGGCG	CGTGCTATGA	1020
TGATTGACCC	AGAAATCATT	GGCTACGATG	AACCAACTTC	TGCCCTGGAT	CCAGAATTAC	1080
GTTTGGAAGT	GGAGAAGCTA	ATCTTGCAAA	ATAGGGAACT	TGGGATGACC	CAGATTGTGG	1140
TTACCCATGA	TTTGCAGTTT	GCTGAAAATA	TCGCAGATGT	ATTATTGAAA	GTAGAACCTA	1200
AATAGGAGGA	AAAATGGATG	AAAAAATGGA	TGCTTGTATT	AGTCAGTCTG	ATGACTGCTT	1260
TGTTCTTAGT	AGCTTGTGGG	AAAAATTCTA	GCGAAACTAG	TGGAGATAAT	TGGTCAAAGT	1320
ACCAGTCTAA	CAAGTCTATT	ACTATTGGAT	TTGATAGTAC	TTTTGTTCCA	ATGGGATTTG	1380
CTCAGAAAGA	TGGTTCTTAT	GCAGGATTTG	ATATTGATTT	AGCTACAGCT	GTTTTTGAAA	1440
AATACGGAAT	CACGGTAAAT	TGGCAACCGA	TTGATTGGGA	TTTGAAAGAA	GCTGAATTGA	1500
CAAAAGGAAC	GATTGATCTG	ATTTGGAATG	GCTATTCCGC	TACAGACGAA	CGCCGTGAAA	1560
AGGTGGCTTT	CAGTAACTCA	TATATGAAGA	ATGAGCAGGT	ATTGGTTACG	AAGAAATCAT	1620
CTGGTATCAC	GACTGCAAAG	GATATGACTG	GAAAGACATT	AGGAGCTCAA	GCTGGTTCAT	1680
CTGGTTATGC	GGACTTTGAA	GCAAATCCAG	AAATTTTGAA	GAATATTGTC	GCTAATAAGG	1740
AAGCGAATCA	ATACCAAACC	TTTAATGAAG	CCTTGATTGA	TTTGAAAAAC	GATCGAATTG	1800
ATGGTCTATT	GATTGACCGT	GTCTATGCAA	ACTATTATTT	AGAAGCAGAA	GGTGTTTTAA	1860
ACGATTATAA	TGTCTTTACA	GTTGGACTAG	AAACAGAAGC	TTTTGCGGTT	GGAGCCCGTA	1920
AGGAAGATAC	AAACTTGGTT	AAGAAGATAA	ATGAAGCTTT	TTCTAGTCTT	TACAAGGACG	1980
GCAAGTTCCA	AGAAATCAGC	CAAAAATGGT	TTGGAGAAGA	TGTAGCAACC	AAAGAAGTAA	2040
AAGAAGGACA	GTAAGATAAA	ATAGTGGCTG	AAACTGCGTT	TTGATTAGCA	AAACGTAGTT	2100
PTTTTTGTAA	TCTAGGAAAA	CGATAATAGC	GATTGAATAT	GGATAATTGA	ATATGGAATA	2160
CCCACTGTG	АТТТСТАААА	CATTGTTAAA	AATTGATTTG	ACTTCCAAAA	TTAAAATGTT	2220
CTGTAATGAA	ATACTGATGT	AACTGTTTTA	GGAACAATAA	AACGCATAAT	ATCAAGGTTT	2280
TTGCACCTTA	CATTATGCGT	TTTTGTGATT	TTAAGACTTG	TTAGCTGATT	TTTTACAATC	2340
CTGCGAAATC	TTTGATTTCT	TGTGCTGACA	TTGAAGAGTC	GCAACGGACG	TTGATTTGTC	2400
CATCTGTAAT	ATGAACAAAA	CCTGGTACAG	TTGGGATTCC	ATAGCGTGAG	CGGAATGCTT	2460
GCAAATCATT	GAGTTGGCTT	GGTTCTTCAC	TATTGATGAA	GTAAATGTGA	GCTTTGGTTT	2520
CAGCTACGAC	ACCTGACAAT	GTACCTGCAA	ATTTACGGCA	GTAAGGGCAA	GTTTTGCGAC	2580

CGATAAAGAA	GGTTGCAGTT	TCTTTTTTAT	CAAGAGCTTC	TTGCGCACGC	ACAACTGTAG	2640
rga <b>cttcaa</b> g	GTCTTTGATG	ТТАТСТАААА	ATTGTTCCAT	GAGATTACCT	CGCTTTCATT	2700
GATAAGTCTA	GTATGCCATA	AAGTTTCTAA	AATTGCTTAG	ATTTGATACG	AAAAAGATG	2760
AGGTTGGTTG	GTCTCATCTT	TTATAGGTCT	TTATTTTACA	AATGCATTGA	TTTCTGCTTC	2820
GATGTTAGCA	ATCTTAGCTT	GTGATTCTTC	GTTGGTTTCC	CCTACAACTG	CAATGTAGAA	2880
CTTGATTTTT	GGTTCTGTAC	CTGAAGGGCG	AACGGCAATC	CATGAACCGT	CAGCAAGTGT	2940
GTATTTCAAC	ACATCACTTG	GAGGAGTTGT	CAAGTTTGTA	ACAGTACCGT	CAGCAACAGT	3000
AGCAGTTTGT	GCCTTGAAGT	CTTCTACGAC	AGTGATAGCT	GTTGCGTTCC	ATTCTGTTGG	3060
AGCATTGTTG	CGGAATTTAG	CCATAATCGC	TTTGATTTGT	TCAGCACCAT	CGACACCTGA	3120
AAGAGTAACA	GAGATTGTTT	TTTCTGCGTA	GTAGCCATAT	TCTTTATAGA	TTTCTTCGAT	3180
ACCGTCAGCA	AGTGTCAAAC	CACGAGAACG	GTAGTAGGCA	GCAAGTTCAG	CAACTACAAG	3240
ACGGCTTGG	ATGGCATCTT	TATCACGTAC	AAATGGTTTA	ATCAAGTAAC	CGAAGCTTTC	3300
TTCAAATCCC	ATCATGTAAG	TGTGGTTGTG	TTTTTCTTCG	AATTCTTGGA	TTTTTTCAGC	3360
GATAAATTTG	AAACCTGTCA	AGACGTTGAA	CATAGTTGCG	CCGTAGCTTT	CAGCAATCTT	3420
CGTTACCAAG	TCAGTTGAAA	CGATAGATTT	GCAGAGAGCG	GCATTTTCAG	GAAGAGTTCC	3480
AGCGTTTTTG	TGAGCTTCCA	AGATGTATTT	AGCCATGATA	GCACCGATTT	GGTTACCTGA	3540
\AGGTTGAGG	TAGCTACCAT	CTTTTTGAAG	AACTTCAACA	CCAACACGGT	CAGCGTCTGG	3600
STCAGTTGCG	ACAAGAACAT	CTGCACCAAC	TTGACGACCA	AGTTCTTCAG	CAAGGGCAAA	3660
GCTGCTTGG	CTTTCTGGGT	TTGGAGATGT	TACAGTTGAA	AAGTCTGGGT	CAGCAGTTGC	3720
TGCGCTTCA	ACAACTTGAA	CAGAGTCAAA	TCCTGCTTGG	GCAAGAGCAC	GACGAGCCAA	3780
CATTTCACCA	GTACCATGAA	GTGGTGTGTA	GACAATCTTC	ATGTCTTTAC	CAAATTCTTC	3840
ATCAAGGCT	GGGTTGATGT	TTATGTCCTT	AACCTCTTTA	AGGTATTCTA	TGTCAACAGC	3900
TCGCCGATA	ACTTCAATCA	AGCCAGAAGC	TTTTTCAGTT	TCCACATCAG	CAACTTCAAC	3960
GCAAATGGG	TTTTCGATTG	CACGGATATA	AGTAGTCAAA	GCGTCCGCAT	CGTGTGGAGG	4020
ATTTGTCCA	CCGTCTTCAC	CGTAAACCTT	GTAACCGTTA	AATGGAGCAG	GGTTGTGGCT	4080
GCTGTGACC	ATGATACCTG	CGAAACAGTT	GAGATGACGA	ACTGCAAATG	ATAGTTCTGG	4140
AGTCGGACGA	AGGCTTTCAA	ATACGTAAGA	TTTGATGCCG	TGTTTAGCAA	GAACTGCCGC	4200
GATTCAAAG	GCAAACTCAG	GTGAGAAGTG	ACGGCTATCG	TAGGCAATTG	CTACACCGCG	4260
ייייטיייטיייטיייי	<b>ጥጥ</b> ጥር አርርጥጥ	ጥጥርልርጥርልልጥ	CANACGAGCC	ልልጥርርጥጥር አር	ጥልሮርጥጥሮርርር	4330

			836			
AACAACGTAG	ATGTTGATAC	GGTTTGTACC	AGCACCAACC	AAGCCACGCA	TACCTGCAGT	4380
ACCAAATTCA	AGATTTGTAT	AGAAGGCATC	TTCCTTAGTT	TTTTCGTCCA	TATTTTCCAA	4440
ATCTTGACGA	AGGTAGTCAC	GAAGCTCCAC	AAAATCAACC	CATTTCTGGT	AATTTTCTTG	4500
GTAAGACATT	CAAATTCTCC	TTTATTTTA	AAACATTTAA	TCAGTTTAAT	TATATCATTT	4560
ТТТТАСТТТ	TAGTAAAACC	TTATCTGCTT	CGAACATCTC	TTCAAACCAG	GTCAGATTGA	4620
ATTTTGGGGT	TATATGATGT	TGAGGCTAGG	AAAAATTCAA	TTTCAGTAAA	AAAAGTAAGT	4680
CTTCTCATAA	CAAAACATTG	ATATAGTTAC	TTAGTTTTAA	ACAAGCATAT	TATAATAAAG	4740
CTATGGCATA	TAGTACTGAT	TTTAAACAGC	GAGCATTAGA	TTACATCAAA	GAGGGGCACA	4800
GCCATGTCGA	GGCAGCCAAG	TTTTTTGGTG	TTGGCGTCAG	AACTCTCTTC	ACGTGGGAAA	4860
AGAAAGACGT	GAACAAGAAC	ACATAGAGAG	GAAAAAGCGA	GTCGTCAAAA	ACCGAAAGAT	4920
TCCTTTAGAG	GAATTGAAAG	CCTTTGTAGA	GGCTCATCCA	GATGCTTTTT	TACGGGAAAT	4980
TGCGGCACAT	TTTGATTGTG	CTGTTCCTTC	AGTATGGGCA	GCTTTAAAGC	AGATTAAGGT	5040
CACTTTAAAA	AAAGATGACG	AGCTTTAAGG	AACAAGACCC	AGAAAAGTAG	CCTTATTTCT	5100
TAAGAATTTT	AATAGTTTAA	AGCACCTAGC	ACCTGTTTAT	ATTGATGAAA	CAGGAATCGA	5160
CCGCTATCTC	TATCGTCCTT	ATGCAGGGGC	TCCTAGAGGG	GAGAAAGTCT	ATGAAAAGAT	5220
PAGCGGACGT	CGTTTTGAGC	GAACTTCAAT	TGTTGCAGGA	CAAGTAGACG	GAGAGTTTAT	5280
AGCTCCCATG	ATTTACAAGA	AAAGCATGAC	AAGCGATTTC	TTTGTGGAGT	GGTTCAAAAC	5340
GCAACTCCTA	CCTGCTTTGA	AGACACCTCA	TGTTATTGTC	ATGGGCAATG	CTGGTTTTCA	5400
PCCCAAGAAC	ATTTTGGATG	AACTCTGCAT	CCAAGATAAA	CACTTTTTCT	TACCTCTACC	5460
ACCTTATTCA	CCGGATTTGA	ATCCTATTGA	GCAAGCTTGG	GCTATCTTGA	AAAAGAAAGT	5520
GACGGATGTA	TTAAGGGAAG	TTCCAACTAT	TTTTGAATGT	TTGGAATGCT	TTTTTAAAAC	5580
PAGATGACTA	TAACGGTTCT	AAAGGAACCT	ATCGAGTAGT	CATTAAAACT	AAGGATACTG	5640
CTGGTTAAGA	GAAGACGGTA	TACAATCAAA	CCATTCACCG	TGTAGCCGAA	ATCGTTCAGA	5700
ATGAAGACTT	GTATCAGAAT	GAAGACTTGT	ATAAGAAAGG	TTTGAATGTT	GAACTTGCGC	5760
ACCAACAAAT	TAAGGGATTT	TTTGAAGCAG	AGTTTAAAAA	TCGTATTAAT	GGAGTTCTTA	5820
ТАСТААААТ	AAAAAATAGT	ACATTAAATC	GTGTAAATAA	AAAAACTATA	CACCAGAGCA	-5880
CAAAAACTC	CATGATCAAT.	TTGAAGCAGA	AGCAACGGAA	GATGCTAAAA	AACAAGGCGA	5940
PATTGTGTTG	AATGTTGACC	AGGATTTCAT	GAGCATATCT	AAGTCTAATA	AAAGTGGTTC	6000
GACTGGAAG	AAAACTTTCA	CAGTGAGGAT	AACCAATAGG	CTAGCAAATG	ACTTGAATAA	6060
GTCTTGAAA	CAGGTTGATA	AAGATACTCC	TAATACCCCA	ACTTGGCTAA	ACTCAGCTGC	6120

TTCTAAAGCT	AAAGATGATG	ACAGAGTATA	TAAACTACTG	AAGACTCTTA	TACCAGGAGA	6180
AAATTACCTA	TCATGTTAAG	GATAATCAGC	TAGAAGTAGA	AACAGATAAA	TACACATATA	6240
CTGCCGCTAG	AAATGGTAGT	AAGGAAGTTG	GTATTCAAGA	GTCAGATATA	GCAGCAACTC	6300
TAAGTGCCGA	TGAATATAAT	TCTAATCGCC	AAACTTTTGA	GAGAGAATAC	АААТАСАААА	6360
GCAAATGCCC	TTAATAATGG	TTGGGCTAGA	TCTGGTTCTG	AAGAGTTCAA	AAAGTTCTCC	6420
CACTTTGTAG	GGGTAGACAA	AGGGATTGTG	CGAACGAATG	TACTGACTGG	тааааааста	6480
TCTGATAAGA	TTAGGAAAGA	AGTGGGCTCT	GGAGATAGCA	AACTAGGAAA	AGGCGGCTAT	6540
TTCTCTACTG	GGGATGTTCT	ATTAGGAAAA	GATGTTGTTT	CTTATACCGT	ACAAGTATTT	6600
TCAGAGAATA	ATGAAAGAGT	AGGAGTAAAC	ACTCAAAGTC	ACCGTGTTCA	GTATAATCTC	6660
CCAATTCTAG	CTGACTTTTC	AGTCATCCAA	GATACTGTGG	AACCATCACG	AACCGTTGTT	6720
GAAAAAATCA	TTCCAAAACT	AAATATTCCC	GAAGAAGAGA	AAGGGAAAAT	AACCGAAGAA	6780
ATCAAGAAAA	AGAAAAAAAC	CTCAGAATTG	GCAGAACTAA	TCTCAGAAAA	TGTGAAAGTT	6840
CGCTATGTTG	ATGAACAAGG	GCGTTTGCTA	TCATTGAAAA	ATGATACTGG	AATTGGAGAA	6900
AAAGAAAGTG	ACGGAACCTA	CATTACCAAT	AAAAAACAAC	TGATTGGTAC	CAGCTATAAT	6960
GTCACAGATA	AAAAACTCAG	TAGCATGACT	ACTACTGACG	GAAAATATTA	TACTTTTAAA	7020
GAAGCAGATA	CAAATTCTGC	AAGTTTAACT	GGGAATATTG	TAAGCGAAGG	TAGAACAGTG	7080
ACCTTAGTTT	ATAGAGAAAG	CGAAGCGCCA	ACCACTGCTA	CAGTAACAGC	CAATTACTAT	7140
AAAGAAGGTA	GGCAAGAGAA	GTTGGTAGAG	TCTGTTATAA	AAGCTGATTT	AGCGATAGGT	7200
TCTGAGTATA	CCACAGAATC	AAAAACTATT	GAAGGGAAAA	CAACAACTGA	GGACAAAGAA	7260
GACCGAGTTA	TCACAAGGAA	AACAACATAC	ACCTTGGTAG	CAACTCCTGA	AAATGCGTAC	7320
CAGAAGACGG	TGCAACAGTT	GACTATTACT	ACCGTGAGAA	TGTTGAGGAA	ACAGTGGTTC	7380
CCAAAACAGC	AACCTCTACT	GAGACGAAGA	CTATAACGCG	TATCATTCAT	TACGTTGATA	7440
AAGTTACGAA	CCAAAATGTA	AAAGAAGATG	TTGTTCAACC	TGTAACCTTA	AGCCGTACAA	7500
AAACTGAGAA	CAAGGTCACG	GGAGTTGTAA	CCTACGGTGA	ATGGACAACA	GGAAACTGGG	7560
ACGAGGTTAT	ATCTGGTAAG	ATTGACAAGT	ACAAAGATCC	AGATATTCCA	ACAGTTGAAT	7620
CACAAGAAGT	TACGTCAGAC	TCTAGTGATA	AAGAAATAAC	GGTAAGGTAT	GACCGTTTAT	7680
CAACACCAGA	AAAACCAATC	CCACAACCAA	ATCCAGAGCA	TCCAAGTGTT	CCGACACCAA	7740
ACCCAGAACT	ACCAAATCAA	GAGACTCCAA	CACCAGATAA	ACCAACTCCA	GAACCAGGTA	7800
CTCCAAAAAC	TGAAACTCCA	GTGAATCCAG	ACCCAGAAGT	TCCGACTTAT	GAGACAGGTA	7860

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858	
AGAGAGAGA ATTGCCAAAC ACAGGTACAG AAGCTAATGC TACCTTGGCT AGTGCTGGTA	7920
TCATGACCTT GTTAGCTGGT CTAGGATTAG GATTTTTCAA GAAAAAAGAA GATGAAAAAT	7980
AATAGATTTT AGAATCTAGG AACCAGGAAA AGCTCACAGA TGTGGGCTTT TTTCCTGGTT	8040
TTGAGAACGA GGTCTTTCGT AAAGAATAAA AACGCTTACA AGTCTGTTGA ACTGGGAAAC	8100
TATGAATCCT ATTTTTTAA AAATATTTCC AGAAATCAGT TGCGG	8145
(2) INFORMATION FOR SEQ ID NO: 123:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 8697 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 123:	
CGGTACCGGG AACGATACTT AGTCTAATTT TGCACCTTTT CCATGTATGG TAAAGGTTTT	60
TCTTTTTTA AAAAGGAAAA CGAGAAGAGG AGGTTCTTAT GAAAGCAAGC ATTGCCTTGC	120
AAGTTTTACC CCTAGTACAG GGGATTGATC GGATAGCTGT TATTGATCAG GTCATTGCTT	180
ATCTGCAWAC TCAAGAAGTG ACGATGGTAG TGACACCATT TGAAACGGTC TTGGAAGGGG	. 240
AGTTTGATGA GCTTATGCGC ATTCTAAAAG AAGCGCTGGA AGTGGCAGGG CAGGAGGCAG	. 300
ACAATGTCTT TGCCAATGTC AAAATAAATG TAGGAGAGAT TTTAAGTATT GATGAGAAAC	360
TTGAGAAGTA TACTGAGACG ACACATTAGT CTATTGGGCT TTCTCGGAGT ATTGTCAATC	420
TGGCAGTTAG CAGGTTTTCT TAAACTTCTC CCCAAGTTTA TCCTGCCGAC ACCTCTTGAA	480
ATTCTCCAGC CCTTTGTTCG TGACAGAGAA TTTCTCTGGC ACCATAGCTG GGCGACCTTG	540
AGAGTGGCTT TACTGGGGCT GATTTTGGGA GTTTTGATTG CCTGTCTTAT GGCTGTGCTC	600
ATGGATAGTT TGACTTGGCT CAATGACCTG ATTTACCCTA TGATGGTGGT CATTCAGACC	660
ATTCCGACCA TTGCCATAGC TCCTATCCTG GTCTTGTGGC TAGGTTATGG GATTTTGCCC	720
AAGATTGTCT TGATTATCTT AACGACAACC TTTCCCATCA TCGTTAGTAT TTTGGACGGT	780
TTTAGGCATT GCGACAAGGA TATGCTGACC TTGTTTAGTC TGATGCGGGC CAAGCCTTGG	840
CAAATCCTGT GGCATTTTAA AATCCCAGTT AGCCTGCCTT ACTTTTATGC AGGTCTGAGG	900

GTCAGTGTCT CCTACGCCTT TATCACAACT GTGGTATCTG AGTGGTTGGG AGGTTTTGAA

GGTCTTGGTG TTTATATGAT TCAGTCTAAA AAACTGTTTC AGTATGATAC CATGTTTGCC

ATTATTATTC TGGTGTCGAT TATCAGTCTT TTGGGTATGA AGCTGGTCGA TATCAGTGAA

AAATATGTGA TTAAATGGAA ACGTTCGTAG AATTAGAATG TTTCTGAAAA AGAAAAGAGG

960

1020

1080

AAATCAAAAT	GAAGAAAACA	TGGAAAGTGT	TTTTAACGCT	TGTAACAGCT	CTTGTAGCTG	1200
TTGTGCTTGT	GGCCTGTGGT	CAAGGAACTG	CTTCTAAAGA	CAACAAAGAG	GCAGAACTTA	1260
AGAAGGTTGA	CTTTATCCTA	GACTGGACAC	CAAATACCAA	CCACACAGGG	CTTTATGTTG	1320
CCAAGGAAAA	AGGTTATTTC	AAAGAAGCTG	GAGTGGATGT	TGATTTGAAA	TTGCCACCAG	1380
AAGAAAGTTC	TTCTGACTTG	GTTATCAACG	GAAAGGCACC	ATTTGCAGTG	TATTTCCAAG	1440
ACTACATGGC	TAAGAAATTG	GAAAAAGGAG	CAGGAATCAC	TGCCGTTGCA	GCTATTGTTG	1500
AACACAATAC	ATCAGGAATC	ATCTCTCGTA	AATCTGATAA	TGTAAGCAGT	CCAAAAGACT	1560
TGGTTGGTAA	GAAATATGGG	ACATGGAATG	ACCCAACTGA	ACTTGCTATG	TTGAAAACCT	1620
TGGTAGAATC	TCAAGGTGGA	GACTTTGAGA	AGGTTGAAAA	AGTACCAAAT	AACGACTCAA	1680
ACTCAATCAC	ACCGATTGCC	AATGGCGTCT	TTGATACTGC	TTGGATTTAC	TACGGTTGGG	1740
ATGGTATCCT	TGCTAAATCT	CAAGGTGTAG	ATGCTAACTT	CATGTACTTG	AAAGACTATG	1800
TCAAGGAGTT	TGACTACTAT	TCACCAGTTA	TCATCGCAAA	CAACGACTAT	CTGAAAGATA	1860
ACAAAGAAGA	AGCTCGCAAA	GTCATCCAAG	CCATCAAAAA	AGGCTACCAA	TATGCCATGG	1920
AACATCCAGA	AGAAGCTGCA	GATATTCTCA	TCAAGAATGC	ACCTGAACTC	AAGGAAAAAC	1980
GTGACTTTGT	CATCGAATCT	CAAAAATACT	TGTCAAAAGA	ATACGCAAGC	GACAAGGAAA	2040
AATGGGGTCA	ATTTGACGCA	GCTCGCTGGA	ATGCTTTCTA	CAAATGGGAT	AAAGAAAATG	2100
GTATCCTTAA	AGAAGACTTG	ACAGACAAAG	GCTTCACCAA	CGAATTTGTG	AAATAATGAC	2160
AGAAATTAGA	CTAGAGCACG	TCAGTTATGC	CTATGGTCAG	GAGAGGATTT	TAGAGGATAT	2220
CAACCTACAG	GTGACTTCAG	GCGAAGTGGT	TTCCATCCTA	GGCCCAAGTG	GTGTTGGAAA	2280
GACCACCCTC	TTTAATCTAA	TCGCTGGGAT	TTTAGAAGTT	CAGTCAGGGA	GAATTGTCCT	2340
TGATGGTGAA	GAAAATCCCA	AGGGGCGCGT	GAGTTATATG	TTGCAAAAGG	ATCTGCTCTT	2400
GGAGCACAAG	ACGGTGCTTG	GAAATATCAT	TCTGCCCCTC	TTGATTCAAA	AGGTGGATAA	2460
GGCAGAAGCT	ATTTCCCGAG	CGGATAAAAT	TCTTGCGACC	TTCCAGCTGA	CAGCTGTAAG	2520
AGACAAGTAT	CCTCATGAAC	TTAGCGGTGG	GATGCGCCAG	CGTGTAGCCT	TACTCCGGAC	2580
CTACCTTTTT	GGGCACAAGC	TCTTTCTCTT	AGATGAGGCC	TTTAGCGCCT	TGGATGAGAT	2640
GACAAAGATG	GAACTCCACG	CTTGGTATCT	TGAGATTCAC	AAGCAGTTGC	AGCTAACAAC	2700
CCTGATCATC	ACGCATAGTA	TTGAGGAGGC	CCTCAATCTC	AGCGACCGTA	TCTATATCTT	2760
GAAAAATCGC	CCTGGGCAGA	TTGTTTCAGA	AATTAAACTA	GATTGGTCTG	AAGATGAGGA	2820
CAAGGAAGTC	CAAAAGATTG	CCTACAAACG	TCAAATTTTG	GCGGAATTAG	GCTTAGATAA	2880

			860			
GTAGAAAAAT	AGGGAGTTGG	TGAAGATTAT	CCTTTACCAG	CGCCCTTTTT	CTTTTAAAAA	2940
TGAGAAAATT	TCGGTATAAT	AGTCAAACAA	GGŢCAAGGTT	TAAAGAGAGA	GGTGGGTTTG	3000
TTATGAGATT	TAAAAATACA	TCGGATCATA	TTGAGGCCTA	CATCAAGGCG	ATTTTAGATC	3060
AATCTGGTAT	CGTGGAGTTG	CAACGGAGTC	AGTTGGCAGA	TACCTTTCAG	GTTGTTCCTA	3120
GTCAGATTAA	CTACGTGATC	AAGACACGCT	TTACGGAAAG	TAGAGGCTAC	TTGGTTGAAA	3180
GTAAGCGTGG	TGGCGGAGGC	TACATTCGTA	TAGGACGGAT	TGAGTTTTCT	AGTCATCATG	3240
AAATGCTCCG	GGAGCTGCTT	TACTCGATTG	GTGAGCGAGT	CAGTCAAGAA	ATTTATGAGG	3300
ATATTCTCCA	GCTTTTGGTT	GAGCAGGAAT	TGATGACCAA	GCAGGAGATG	AATTTGCTAG	3360
AATCAGTAGC	TTTGGATCGC	GTTTTAGGAG	AAGAAGCTCC	AGTTGTTCGA	GCAAACATGC	3420
TACGTCAGAT	CATACAAGAG	GTAGATAGAA	AAGGGAAGTA	AGATGAACTA	TTCAAAAGCA	3480
TTGAATGAAT	GTATCGAAAG	TGCCTACATG	GTTGCTGGAC	ATTTTGGAGC	TCGTTATCTA	3540
GAGTCGTGGC	ACTTGTTGAT	TGCCATGTCT	AATCACAGTT	ATAGTGTAGC	AGGGGCAACT	3600
TTAAATGATT	ATCCGTATGA	GATGGACCGT	TTAGAAGAGG	TGGCTTTGGA	ACTGACTGAA	3660
ACGGACTATA	GCCAGGATGA	AACCTTTACG	GAATTGCCGT	TCTCCCGTCG	TTTGCAGGTT	3720
CTTTTTGATG	AAGCAGAGTA	TGTAGCGTCA	GTGGTCCATG	CTAAGGTACT	AGGGACAGAG	3780
CACGTCCTCT	ATGCGATTTT	GCATGATAGC	AATGCCTTGG	CGACTCGTAT	CTTGGAGAGG	3840
GCTGGTTTTT	CTTATGAAGA	CAAGAAAGAT	CAGGTCAAGA	TTGCTGCTCT	TCGTCGAAAT	3900
TTAGAAGAAC	GGGCAGGCTG	GACTCGTGAA	GATCTCAAGG	CTTTACGCCA	ACGCCATCGT	3960
ACAGTAGCTG	ACAAGCAAAA	TTCTATGGCC	AATATGATGG	GCATGCCGCA	GACTCCTAGT	4020
GGTGGTCTCG	AGGATTATAC	GCATGATTTG	ACAGAGCAAG	CGCGTTCTGG	CAAGTTAGAA	4080
CCAGTCATCG	GTCGGGACAA	GGAAATCTCA	CGTATGATTC	AAATCTTGAG	CCGGAAGACT	4140
AAGAACAACC	CTGTCTTGGT	TGGGGATGCT	GGTGTCGGGA	AAACAGCTCT	GGCGCTTGGT	4200
CTTGCCCAGC	GTATTGCTAG	TGGTGACGTG	CCTGCGGAAA	TGGCTAAGAT	GCGCGTGTTA	4260
GAACTTGATT	TGATGAATGT	CGTTGCAGGG	ACACGCTTCC	GTGGTGACTT	TGAAGAACGC	4320
ATGAATAATA	TCATCAAGGA	TATTGAAGAA	GATGGCCAAG	TCATCCTCTT	TATCGATGAA	4380
CTCCACACCA	TCATGGGTTC	TGGTAGCGGG	ATTGATTCGA	CTCTGGATGC	GGCCAATATC	4440
TTGAAACCAG	CCTTGGCGCG	TGGAACTTTG	AGAACGGTTG	GTGCCACTAC	TCAGGAAGAA	4500
DAAAAAC	ATATCGAAAA	AGATGCGGCA	CTTTCTCGTC	GTTTCGCTAA	AGTGACGATT	4560
GAAGAACCAA	GTGTGGCAGA	TAGTATGACT	ATTTTACAAG	GTTTGAAGGC	<b>GACTTATGAG</b>	4620
AAACATCACC	GTGTACAAAT	CACAGATGAA	GCGGTTGAAA	CAGCGGTTAA	GATGGCTCAT	4680

CGTTATTTAA	CCAGTCGTCA	CTTGCCAGAC	TCTGCTATCG	ATCTCTTGGA	TGAGGCGGCA	4740
GCAACAGTGC	AAAATAAGGC	AAAGCATGTA	AAAGCAGACG	ĄTTCAGATTT	GAGTCCAGCT	4800
GACAAGGCCC	TGATGGATGG	CAAGTGGAAA	CAGGCAGCCC	AGCTAATCGC	AAAAGAAGAG	4860
GAAGTACCTG	TCTACAAAGA	CTTGGTGACA	GAGTCTGATA	TTTTGACCAC	CTTGAGTCGC	4920
TTGTCAGGAA	TCCCAGTTCA	AAAACTGACT	CAAACGGATG	CTAAGAAGTA	TTTAAATCTT	4980
GAAGCAGAAC	TCCATAAACG	GGTTATCGGT	CAAGATCAAG	CTGTTTCAAG	CATTAGCCGT	5040
GCCATTCGCC	GCAACCAGTC	AGGGATTCGC	AGTCATAAGC	GTCCGATTGG	TTCCTTTATG	5100
TTCCTAGGGC	CTACAGGTGT	CGGGAAAACT	GAATTAGCCA	AGGCTCTGGC	AGAAGTTCTT	5160
TTTGACGACG	AATCAGCCCT	TATCCGCTTT	GATATGAGTG	AGTATATGGA	GAAATTTGCA	5220
GCTAGTCGTC	TCAACGGAGC	TCCTCCAGGC	TATGTAGGAT	ATGAAGAAGG	TGGGGAGTTG	5280
ACAGAGAAGG	TTCGCAATAA	ACCCTATTCC	GTTCTCCTCT	TTGATGAGGT	AGAGAAGGCC	5340
CACCCAGATA	TCTTTAATGT	TCTCTTGCAG	GTTCTGGATG	ACGGTGTCTT	GACAGATAGC	5400
AAGGGACGCA	AGGTCGATTT	TTCAAATACC	ATTATCATTA	TGACATCGAA	TCTAGGTGCG	5460
ACTGCCCTTC	GTGATGATAA	GACTGTTGGT	TTTGGGGCTA	AGGATATTCG	TTTTGACCAG	5520
GAAAATATGG	`AAAAACGCAT	GTTTGAAGAA	CTGAAAAAAG	CTTATAGACC	GGAATTCATC	5580
AACCGTATTG	ATGAGAAGGT	GGTCTTCCAT	AGCCTATCTA	GTGATCATAT	GCAGGAAGTG	5640
GTGAAGATTA	TGGTCAAGCC	TTTAGTGGCA	AGTTTGACTG	AAAAAGGCAT	TGACTTGAAA	5700
TTACAAGCTT	CAGCTCTGAA	ATTGTTAGCA	AATCAAGGAT	ATGACCCAGA	GATGGGAGCT	5760
CGCCCACTTC	GCAGAACCCT	GCAAACAGAA	GTGGAGGACA	AGTTGGCAGA	ACTTCTTCTC	5820
AAGGGAGATT	TAGTGGCAGG	CAGCACACTT	AAGATTGGTG	TCAAAGCAGG	CCAGTTAAAA	5880
TTTGATATTG	CATAAAAGAA	TAAAAGTATC	AGCATCTGAC	CATAAGTCAC	AGTGGAGTGA	5940
AATTCAATGA	AAATCAAAGA	GCAAACTAGG	CAGCTAGCCG	CAGGTTGCTC	AAAACACTGG	6000
TTTGAGGTTG	CAGATAGAGC	TGACGTGGTT	TGAAGAGATT	TTCGAAGAGT	ATGAAACTAA	6060
AACCTATAGC	TTCTAAACGA	TCCGTGGTTT	TCATCATTCA	ACACAAAATT	CATATGTTTA	6120
TTACCCTCCG	TCGTATTTGT	CTTAGAGCGT	GTGTAGTAGA	AAAAGAGCAG	TCTTATCTGA	6180
AATTTTTATT	CTTTCAAAAG	AGACCTGTTT	CTTTTTTGCA	TGTCAAATCC	GTTCTAGCTG	6240
GTATTTGAAA	AATCAAACTA	ATATTCAATG	AAAATCAAAG	AACAAACTAG	GAAGCTAGCC	6300
GCAGGTTGCT	CAAAACACTG	TTTTGAGGTT	GTAGATAGAG	CTGACGTGGT	TTGAAGAGAT	6360
TTTCGAAGAG	TATAAGCTGC	AAGATGAATG	ATTTTCTTGT	ATTGACGTTG	TTGTTGACAA	6420

			862			
AAAGTAGCGG	Ataaatgaaa	TCCATTCCAT	TATCATAGAT	GATAGGCTGG	TAGGAAATTT	
TCAAATAGCA	TACAGGAAAT	AGATGTATGG	AGTTCTGGTA	GTAGAAAGGG	AGAGAGATGA	
ACATTTTAGT	TGCAGATGAC	GAGGAAATGA	TTAGAGAAGG	AATTGCAGCA	TTTCTGACAG	
AAGAGGGTTA	TCATGTCATT	ATGGCTAAGG	ATGGACAAGA	GGTCTTGGAA	AAATTTCAAG	
ATCTCCCTAT	CCATCTCATG	GTACTGGATT	TAATGATGCC	TAGGAAGAGT	GGTTTTGAAG	
TGTTAAAAGA	AATCAATCAA	AAGCACGATA	TTCCTGTCAT	CGTCTTGAGT	GCTCTGGGAG	
ATGAAACTAC	TCAGTCACAG	GTATTTGATC	TCTATGCTGA	TGATCATGTG	ACAAAACCTT	
TTTCTTTGGT	ACTGCTTGTC	AAGCGTATTA	AGGCGCTTAT	CAGACGTTAC	TACGTCATAG	

AGGATCTTTG GCGATATCAG GATGTAACAG TGGATTTTAC CTCTTACAAA GCACATTATA

AAAATGAAGA AATTGATCTC AAACCAAAGG AATTACTGGT ACTAAAGTGT TTGATTCAGC

ATAAAAATCA AGTTTTAAGT AGAGAGCAGA TATTGGAAGA AATTTCAAAA GATGTAGCTG

ATTTACCTTG TGATAGGGTC GTTGATGTCT ATATTCGTAC TCTTCGCAAA AAATTAGCTT

TAGATTGTAT CGTGACTGTG AAAAATGTTG GGTATAAGAT TAGCTTATGA TAAAAAATCC

TAAATTATTA ACCAAGTCTT TTTTAAGAAG TTTTGCAATT CTAGGTGGTG TTGGTCTAGT

CATTCATATA GCTATTTATT TGACCTTTCC TTTTTATTAT ATTCAACTGG AGGGGGAAAA

GTTTAATGAG AGCGCAAGAG TGTTTACGGA GTATTTAAAG ACTAAGACAT CTGATGAAAT

TCCAAGCTTA CTCCAGTCTT ATTCAAAGTC CTTGACCATA TCTGCTCACC TTAAAAGAGA

TATTGTAGAT AAGCGGCTCC CTCTTGTGCA TGACTTGGAT ATTAAAGATG GAAAGCTATC

AAATTATATC GTGATGTTAG ATATGTCTGT TAGTACAGCA GATGGTAAAC AGGTAACCGT

GCAATTTGTT CACGGGGTGG ATGTCTACAA AGAAGCAAAG AATATTTTGC TTTTGTATCT

CCCATATACA TTTTGGTTA CAATTGCTTT TTCCTTTGTT TTTTCTTATT TTTATACTAA

ACGCTTGCTC AATCCTCTTT TTTACATTTC AGAAGTGACT AGTAAAATGC AAGATTTGGA

TGACAATATT CGTTTTGATG AAAGTAGGAA AGATGAAGTT GGTGAAGTTG GAAAACAGAT

TAATGGTATG TATGAGCACT TGTTGAAGGT TATTTATGAG TTGGAAAGTC GTAATGAGCA

AATTGTAAAA TTGCAAAATC AAAAGGTTTC CTTTGTCCGC GGAGCATCAC ATGAGTTGAA

AACCCCTTTA GCCAGTCTTA GAATTATCCT AGAGAATATG CAGCATAATA TTGGAGATTA

CAAAGATCAT CCAAAATATA TTGCAAAGAG TATAAATAAG ATTGACCAGA TGAGCCACTT

ATTAGAAGAA GTACTGGAGT CTTCTAAATT CCAAGAGTGG ACAGAGTGTC GTGAGACCTT

GACTGTTAAG CCAGTTTTAG TAGATATTTT ATCACGTTAT CAAGAATTAG CTCATTCAAT

AGGTGTTACA ATTGAAAATC AATTGACAGA TGCTACCAGG GTCGTCATGA GTCTTAGGGC

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7320

7380

7440

7500

7560

7620

7680

7740

7800

7860

7920

7980

8040

8100

8160

863

AAGTGACCAA GAACTAGAAC ATTTATTGA TATATTCTAT CATTCTCAAA TCGTGACAGA 846 TAAGGATGAA AGTTCCGGTT TGGGTCTTTA CATTGTGAAT AATATTTTAG AAAGCTATCA 846 AATGGATTAT AGTTTTCTCC CTTATGAACA CGGTATGGAA TTTAAGATTA GCTTGTAGAC 852 AGATTAGTTT TTTATTAAAG TTCATATAGG GTTAACATAA GTGTGTTATT CTTTGTGTAG 856 ATAAAAGAAA GGATACTAAT ATGGTATTAG CGATTATTTT AGTAACATTC TTTATTCGAT 866	ATTGGATAAG	GTTTTGACAA	ACCTGATTAG	TAATGCAATT	AAATATTCAG	ATAAAAATGG	8280
TAAGGATGAA AGTTCCGGTT TGGGTCTTTA CATTGTGAAT AATATTTTAG AAAGCTATCA  846 AATGGATTAT AGTTTTCTCC CTTATGAACA CGGTATGGAA TTTAAGATTA GCTTGTAGAC  852 AGATTAGTTT TTTATTAAAG TTCATATAGG GTTAACATAA GTGTGTTATT CTTTGTGTAG  854 ATAAAAGAAA GGATACTAAT ATGGTATTAG CGATTATTTT AGTAACATTC TTTATTCGAT	GCGTGTAATC	ATATCCGAGC	AAGATGGCTA	TCTCTCTATC	AAAAATACAT	GTGCGCCTCT	8340
AATGGATTAT AGTTTTCTCC CTTATGAACA CGGTATGGAA TTTAAGATTA GCTTGTAGAC  AGATTAGTTT TTTATTAAAG TTCATATAGG GTTAACATAA GTGTGTTATT CTTTGTGTAG  ATAAAAGAAA GGATACTAAT ATGGTATTAG CGATTATTTT AGTAACATTC TTTATTCGAT  864	AAGTGACCAA	GAACTAGAAC	ATTTATTTGA	TATATTCTAT	CATTCTCAAA	TCGTGACAGA	8400
AGATTAGTTT TTTATTAAAG TTCATATAGG GTTAACATAA GTGTGTTATT CTTTGTGTAG 858 ATAAAAGAAA GGATACTAAT ATGGTATTAG CGATTATTTT AGTAACATTC TTTATTCGAT 864	TAAGGATGAA	AGTTCCGGTT	TGGGTCTTTA	CATTGTGAAT	AATATTTTAG	AAAGCTATCA	8460
ATAAAAGAAA GGATACTAAT ATGGTATTAG CGATTATTTT AGTAACATTC TTTATTCGAT 864	AATGGATTAT	AGTTTTCTCC	CTTATGAACA	CGGTATGGAA	TTTAAGATTA	GCTTGTAGAC	8520
	AGATTAGTTT	TTTATTAAAG	TTCATATAGG	GTTAACATAA	GTGTGTTATT	CTTTGTGTAG	8580
TGATTTTTT AAAGCGTTCG ATAGAGAATG AGAAACGAAT CCTTAGCAAT GGCGGGG 869	ATAAAAGAAA	GGATACTAAT	ATGGTATTAG	CGATTATTTT	AGTAACATTC	TTTATTCGAT	8640
	TGATTTTTTT	AAAGCGTTCG	ATAGAGAATG	AGAAACGAAT	CCTTAGCAAT	GGCGGGG	8697

# (2) INFORMATION FOR SEQ ID NO: 124:

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 4317 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double
   (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 124:

AACCATACAT	ACGGCAAGGC	AAAGCTGACG	CGGTTTGAAG	AGATTTTCGA	AGAGTATTAG	60
TTGCCTTTAA	AGGCATCCAC	CATCGTTTGA	AATTCTTCAT	TTGAGAGAGT	AATCCCTTTG	120
CCCATTTTAG	TATGGTCTGG	ACTCCAAGCA	CGAATATCAA	ACTTTGCAGG	GGCACCATTA	180
AAGCTCACAC	GGTTAATTTC	CTTGGTCCAA	CCTTTTTCGT	TTTCAGAAAG	AGTCAACAAG	240
TGCTCTTCGA	TTTCAAATGT	AAATTCTGCC	ATTTTCTTCT	CCTTTTTTAG	TTTCATTAGT	300
TTATTCGTAA	AATCTTGTAG	ATTTTAGGAA	AATTTTATAT	AATATTGATA	TAAAAGAAGG	360
GAGGCCAATA	TGAGACATAA	ATTCCAGCAA	GTTCTAAATA	AAATACATGA	TTTTTTAAAT	420
GGATATGACC	AACCTGACCA	GACTGAAACC	AACTCCCTTA	CAGCCACTAT	TGAAGAGGCT	480
ATCCAGAAAC	AAACCGCTGT	TCACCTTATC	TTGTCTGAGA	CAAGCTTTAC	AGGTGACATC	540
ATCAAATATG	ATCAGCAAGG	CCAGCAAATT	ATCGTGAAAA	ATTTTTCCAA	AAATGTGAGC	600
CGGATTATCC	GTATAAGCGA	TATTCAACGC	CTGCGATTTG	TCCCCTCAAC	TGTCCAAACA	660
GCCCAAAAAA	ATAGATTTAA	GAAAGAGTGA	GATGTAGTTG	CTTCATCCCA	CTCTTTTTTC	720
TTAGCGAATT	TGTTCAAAAT	GTAAATGAAC	TGCGATATGA	TCTCCATAAC	CACTTCTTTC	780
CAAGTCACGT	TGTAAACGAT	AGGAAATGTA	GTGTTCTGCA	ATGGTAATGT	AACCTGCGCC	840
CAATAAACGA	TGTTCAACCA	TAGATTGAAT	CATACTGATA	GTCGCACGTT	CCACCTTGGC	900

			864			
TTCTTGTAAA	TCCAAAACTA	CCTTCTTAGT	GACTTGAGCA	AGATTTTGAC	GCAAATCATC	960
TGTCAAAACA	TAAACAGTTT	GGGCTGCCTT	CAAGATGGCT	TGGTAAATCT	TATCTGGATT	1020
AAATTCAGCA	ATTTCGCCAT	TACGTTTGAT	TACTTGCATA	GGTTTCTCCT	TTATTCTTTG	1080
TTTTCTTTGA	TTTCTGCCAG	CATTTTTTCT	TCTTCTACTG	TCAGTTGATA	ATGTTCAAGT	1140
AAATCCGGTC	TGCGCTCGTA	GGTTTTCTTT	AAACTCTCGT	ACAATCGCCA	CTGACGAATC	1200
TTTTCATGGT	GGCCACTCAT	CAATACATCT	GGCACGACCA	TGCCTCGATA	ATCATAGGGA	1260
CGTGTGTACT	GAGGATATTC	TAAAAGACCT	GAAGAAAAAC	TATCATCTTG	GTGGCTAGAC	1320
TCCTTGCCAA	TCACTTCTGG	AATCAGGCGA	ACTGTAGCAT	CAATCATGGT	CATAGCTGCC	1380
AATTCTCCAC	CAGTGAGGAC	ATAGTCACCT	AGGGAAATCT	CATCTGTTAC	CAAGGTCTTA	1440
ATGCGCTCAT	CATAACCCTC	ATAGTGCCCA	CAGATAAAGA	TTAGCTCTTC	CTCTTGAGCC	1500
AAATCTTCAG	CATAAGCCTG	ATCAAACTGC	TTTCCAGCAG	GATCAAGGAG	AATAACGCGC	1560
GGATTTTTCT	TTTCAATAGC	ATCAAAGGAA	TCGAAAATAG	GTTGTGCTCT	GAGCAACATG	1620
CCCTGACCGC	CTCCGTAGGG	CTCATCATCT	ACATGACGGG	CCTTTTCAGC	ATTTTCTCGA	1680
Aaattatgat	ACTGGATATC	CAAGAGCCCT	TTTTCTCGAG	CCTTTCCAAC	GATTGAGTGC	1740
TCCAGTGGAG	AAAACATCTC	TGGAAAGAGG	GTTAAAATAT	CAATCTTCAT	CGTCTAACCC	1800
TTCTAAGATT	TCCACATCGA	CCCGTTTACT	TGGAATATCA	ACATTGAGAA	CCACTGGTGG	1860
GATATAAGGT	AAAAGCAAAT	CACGTTTGCC	TTTTCGTTTG	ACCACCCAGA	CATCATTAGC	1920
ACCTGGTTGC	AGGATTTCCT	TGATGGTTCC	AACCAAGCTA	TCACCCTCAT	AGACTTCCAA	1980
ACCGATAATC	TCGTGATAGT	AAAATTCACC	ATCGTCTAGG	TCATTCAAAT	CTTCCTCAGC	2040
GACCTTGAGA	CTGTATCCCT	TGTACTTTTC	GATAGTATTG	ATATGGTACA	TATCTTTGAA	2100
тттаатаатс	TCAAAGTTCT	TCTGTTTACG	GTGGCTAGCG	ATGGTCACTG	TTTGGACAAA	2160
CTGATCTTTT	TCATCAAACA	AAACCAGCTC	AGCTCCTTTT	TTAAACCGTT	CTTCTGCAAA	2220
ATCCGTCACA	GACAAGACTC	GCATCTCCCC	CTGTAATCCC	TGCGTATTAA	CGATTTTCCC	2280
AACATTAAAG	TAGTTCATCT	TGTCTCCTGT	AATCTCCTTT	TTTCCATCTT	ATTCTAACAA	2340
TTCTCGAATA	ATAGCCGCAA	TTTTTTCCGA	TTCTGACCAT	TGTAAATAAT	GGTGATTCCC	2400
TCCTAAAATG	AGTTTAGTAT	TGGAAGTCCA	ATATTCTGAT	TCTCTGTACT	CTTTTTCTCT	2460
ATAAGGCTGA	CAAAAAACAA	ATACAGGAAT	ATGAGCTTCT	ATAGATACAT	CCTCAAAATC	2520
TTCCTCAGTA	ATCTCTCCAG	ATATCTGAAA	TTCTGGATCT	TGATTTTCCA	ACTCTAAGCC	2580
TTTTTCTTGC	ATTAATTCCC	AGATTTTTT	ATTCGTTTCA	GGACTAAATG	TTGCTTGAGT	2640
TAAGTTCTTA	AAATAAAGTT	CAGGACCACA	CTCGTCAATC	AGCCTCATCT	GCTCTTCCAT	2700

PTCTGGATAA	GGATTTTCTG	AAAAATCAGC	AAACATGACT	TTTTTAGTTG	TCGGTTCAAT	2760
TGCTACTAAA	GTCTGACGCT	TAATTGGTTT	CTCGAGTAAT	TTGCAAGCTA	AAATTCCACT	2820
CCAACTATGT	GCACAAAGTA	TATATTCAGA	AATTCCTAAT	TCTTCAAGTA	CTTCATAAAC	2880
CGCATCTGCA	AGATTATCTA	GATTTTTTCC	AGCTTGGTCA	TGAATCGGAC	TCCTACCTGT	2940
GTTCGGAAAA	TCAATTGTCA	AATAACCAAT	TGTAGGAGGA	GGTTTTTCAA	GTATAAGTGA	3000
AAAATTTTCA	TAACTTGGTA	GCAAACCTGC	TCCGTTTAAA	CAAACTAGCA	CTTTCTTTTG	3060
CTTTTGATAA	GTAACAGAGA	GGCTACCAAT	TTCTGTAGAT	ACTTCAAACC	TCTTCATAAA	3120
GAAATCCACT	GATTCTATAT	AATGAATTAT	TAAAAATCCT	TATCCTTTAT	TTTATCACGT	3180
PCCAAGGATT	TTCTCAAGTT	GGAGGAAGGG	GACAATATCT	CTACTTTCCC	TTCAATAATC	3240
CTTCCAAATT	ATGTTTATGT	TGGTAATTAA	TGGCTGCGGT	TTTGTCTTTC	TCAAAGACAG	3300
PCTTGGTAAG	GTCAATATGA	TTAATAGCTA	CGATTGCGAC	GGTGTAGTAA	ATGATATCAG	3360
CCAGTTCTCT	GGCAAGTTCC	TCGTTCGAAT	CCTATCCCTT	CTTTTCGACC	AGAGCGCCTA	3420
PTCAAAACCT	CGACTACTTC	TCCGACTTCC	TCCACTAACT	TCATAAAGAG	ACCTTCATCA	3480
GTCCGAGACT	GCTGTTAATG	TTCGATTAAG	TAGTCTTGGA	ATTGCCTAAA	CGTTCAATCT	3540
PTTATAGTAT	ATTGAAACTA	GAATAGTACA	CCTTTACTTC	TAAAACATTG	TTAGAAATCG	3600
ATTTGACTGT	CCTGATCGAT	TTGTCCTGTT	CTTGTTTCAT	TTTACTATAT	CTTCTATTCC	3660
ACACAAAAAA	GCGAGACATC	CGTCCCGCCC	TTCTTATTTT	TCGTCAATAA	CGATTCTTAC	3720
PTTTTTGTAT	TCAGTTGGGA	CAGAGTAGAC	AATCGTTCTT	ATCGCAGAAA	TAGTGCGACC	3780
CTTACGACCG	ATTACACGAC	CCACATCGCT	TTGATCAAGA	TTCAAATGAT	ATTCCAAAAA	3840
PTCTGGTGTA	TCCTCAATCT	TGATAGTTAA	GGCATCTGGT	TGTGAAATTA	AGGGTTTCAC	3900
AATCGCAATA	ATGAGATTTT	CAATCGTATC	CATCTGTCAA	ССТАСТТТАА	ACTTATTTTG	3960
<b>AAAATTTAGA</b>	ATCGTGGAAT	TTTTTCAATA	CGCCTTCTTT	TGAAAGGATG	TTACGTACTG	4020
rgtctgaagg	TTGAGCTCCA	TTAGCCAACC	ATGCAAGAAC	GCGGTCTTCT	TTCAAAGTTA	4080
TTGGTTTTC	AGCAACAAGT	GGGTTGTAAG	TTCCAACTGT	TTCGATGAAA	CGTCCGTCAC	4140
STGGTGAACG	TGAATCTGCT	ACGTTGATAC	GGTAGAAAGG	TTTTTTCTTA	GAACCCATAC	4200
GAGTCAAACG	GATTTTAACT	GCCATTTTTA	AAGTCTCATT	TCTTTAATTT	TTTATTTCGG	4260
rgaaataget	GAGCTATTTA	GCACATGTTC	TATTATAGCA	GATTTCTGGC	ATGTGTC	4317

(2) INFORMATION FOR SEQ ID NO: 125:

<sup>(</sup>i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 4881 base pairs

WO 98/18931

866

- (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 125:

AATTTATTTG	ACTGGAAATT	GTAGAGGGTT	CTCGAAATTT	CTTGAATGGT	TAAAATAAGG	. 60
ACAAGAGAAA	ACATGGATAT	CTATATCCTT	GTGCCAAAAA	AACCACTGCC	CTCCCCAGAC	120
CAACCTGAGG	AAAGCAGTGA	TTCTTATTT	AGGAGTTAGG	AATGAATACA	CGAAATCAAT	180
TTAGCTGATT	ATTTTTTGTT	TTTCAAGAAT	TCATCGTATT	GTTTTTGCAT	TTCGTTCAAT	240
ACTTTTTCGT	AGGCACCTTC	AGATTTCAAT	TTTTCCATCA	ATTCTGGAAT	CGCTTTATCT	300
GGGTCTACAG	TACCAGTGTT	GATAGCTGTA	TCAAATTGTT	GCATTGTGTT	AGCAATAGCT	360
GAGATTTCAG	ATTTCACATT	GTCAGTATTG	AAGATAAATC	CAAGCGCTGG	AGATTCTTTA	420
GCTTCTGCCA	ATTCTTTCTT	AGAATTTTCG	ATTTGTTGGT	CTGTAACGTT	TTCGTTGATG	480
TAAAGGATCC	AGTTGTTACC	AGTGTTCCAT	CCACCCATGT	GAGTGTTTCC	TTTGTAGCCA	540
TCAAGAACGC	GAACACGGTT	TTCTTTACCT	TCAATTTTTT	CCCAGTTCTT	GCCTTCTGGA	600
CCGTAAACAA	GACCGTTCAA	GAGTTCTGGG	TTCGTATTCA	AGAGGTTCAA	GATTTCCATT	660
GAŢŦŦŦŦĊŦŦ	TGTTCTTAGA	GTTGTTTGAG	ATGACAAAGT	TAGCAACTTG	TGTTGTTTGG	720
<b>TTTTTCTTGA</b>	TGAAGTTAGT	AATTGGTTTG	ATTTGGATAT	CTTTGTTGGC	AACACGTGAA	780
AGCAAGCTGT	TACCGTAGTC	AGCTGGTCCT	ACTGTTTCTT	CACGAACGAA	CCAAGTATCT	840
TGTTGAAGGT	CAAAGGAAGT	ATCGCTTGTT	GCGACGTCTT	TTGGAATGTA	GCCAGCTTCA	900
TAGAATTTGT	GAAGAGTCTT	CAAGTGTTCT	TTGAAACGAG	GCACTTCGTA	ACGGTTTACA	960
ACTTTAGTAG	TATCGCCTTC	AAGGTCGATA	ACGAATGGAA	GACCGTTTGC	TACTGGGTAG	1020
TCAAAATTAT	CAGATGGGAT	GAAAACTTTA	CCAATAGCAA	ATGGTACTAC	GTCTGGAGCT	1080
TTTTCTTTGA	TTTGTTTCAA	GACTGGCTCA	AGAGTTTCGT	AAGAAGTAAC	ACCTGAAATA	1140
TCGATACCAT	ATTTAGCAAG	GAGAGTTCCG	TTGAAGGCAA	AGTTTTGAGA	TGATGCAACG	1200
TTGGCTGCAA	CTGGAACAGC	GTAAATCTTA	CCATTTACAG	TATTACCCTT	GATGTAAGCT	1260
GGGTCAAGTG	CTTTGTAAAG	GTCTTTACCT	TCTTTTTTGT	ACAATTCTGT	CAAGTCAGCG	1320
TAAGCACCTT	TTTGAGCATT	TACAATATAG	TTATCTGCAA	AGGCAATATC	ATAGTTTTCA	1380
CCAGATGATG	TGATAACTGA	CATTTTCTTA	CCATAGTCAC	CCCAGCCAAG	GTATTGGATA	1440
TCCAATTTGG	CACCAACTTT	TTCTTCAATG	ATTTTGTTGG	CATTTGCTAA	CAATTCATCC	1500
AAGTTGTCTG	GTTTGTCACC	GATTTGGTAC	ATTTTGATAA	CAGGTTTGTC	ACCTGAATCA	1560

GCAGCTTTTT	TGCTGTTACC	TGTCAAATTT	CCACAAGCAG	CAAGACCTGC	AGCCAGAGCG	1620
ACTACACTAG	CAGATGCAAA	AGCATATTT	TTCCAGTTTT	TCATGATAAA	AACTCCTTTT	1680
TTTATTTTA	AACTTATAAA	CAATGTAATG	ATCTTATACT	СААТАААААТ	CAAAGAGCAA	1740
ACTAGAAAAC	TAGCCGCAGG	CTGCTCAAAG	CACTGCTTTG	AGGTTGTAGA	TAAGACTGAC	1800
GAAGTCAGTT	ACATATATCT	ACGGCAAGGC	GACGTTGACG	CGGTTTGAAT	TTGATTTTCG	1860
AAGAGTATTA	ACTTCACACA	AGGGAAGTTG	GGAACTGAGA	AATGTTATTT	CTCAATAAGC	1920
ACTATTCTTT	CACACCACCG	ATAGTCAAAC	CTTTTACAAA	GTAGCGTTGG	AAAAATGGAT	1980
ACAAAATCGC	GATTGGAAGG	GTTGCAACCA	CAACCATGGC	CATACGACCT	GTTTCTTTCG	2040
GTAGAGCAAC	TCCCAGTTGA	CCAATCAAGC	CGACCGCTTT	GGCAATGTAG	TCCATATTTT	2100
GTTGGATTTG	CATGAGCAAA	TATTGCAATG	GATACAAGTT	GTCACTCTTG	ATGTAAAGAA	2160
GGGCGTTGAA	CCAGTCATTC	CAGAAACCAA	GAGCTGTTAA	GAGCGTGATG	GTTGCGATAC	2220
CTGGTAGTGA	CAATGGCAAA	CAGATTTGGA	AGAAAATCCG	GGCCTCACTG	GCACCATCGA	2280
TACGAGCCGA	TTCTAGAATG	GCTTCTGGAA	TGGTCTTCTT	GAAGAAGGAA	CGCATCAAGA	2340
TGATGTTAAA	TGGTGAGAGA	AGCATTGGAA	CAATCAAGGC	CCAAACAGTG	TCACCAAGCT	2400
GAAGTACACG	GGTCACCATG	ATATAACCTG	GTACCAAACC	AGCGTTGAAC	AACATACTGA	2460
GAAGGACGAA	GATGGTAAAG	AATCTGCGAT	ACTTAAAGGT	TGTCCGTGAA	ATAGCGTAGG	2520
CATAGGTTGT	TGTGATAAAG	ACATTTGTCA	ATGTCCCAAC	TACGGTTACA	AAGACAGAGA	2580
TGAAGAGGC	TTGTAGGATT	TTATCCTTAA	ACTGTGCCAA	AAACTCAAAA	CCGTCTAAGC	2640
CAAATTGGGA	TGGGAAGAAG	CTATAGCCGT	ATTGGAGGAG	GCTTTTCTCG	TCTGTCACTG	2700
AAATAATGAT	AACGAATACA	AAAGGTAGGA	TACAAGAGAG	GGCAATCAAA	CCCGAAATGA	2760
TACTGAAGAA	GATATCTGCT	TTCTTACTGA	AGGAGTGAAT	GCCGACATTA	TCAATTTTTT	2820
CTTTTTTAAT	TTTCTTTTTT	GCCATATTCT	CCTCCTTTCT	AGAACAAAGC	TGAGTTTGGA	2880
TCGACTCGTC	TTGCAAGCAA	GTTTGATAGG	ATAACCAGAA	TCAAACCAAC	AACGGATTGG	2940
TAAAGACCGG	CTGCTGCAGC	CATACCGATA	TCTGCTGTCT	GAGTCAAACC	ATTAAAGACA	3000
TATACGTCCA	AAACGTTGGT	TACATTGTAA	AGCTGACCAG	CATTGTGTGG	GATTTGATAG	3060
AAGAGACCGA	AGTCTGCGCG	GAAGATATTT	CCGACTGCAA	GGATGGTCAA	TACAGTTACA	3120
AGCGGAGTCA	ACTGAGGAAT	GGTTACGTTG	CGAATACGTT	GCCACTTGCT	AGCTCCGTCC	3180
ACTGTCGCTG	CTTCGTAGTA	GGTTGGATCA	ATTCCCATGA	TCGTCGCATA	GTACATGACA	3240
CTGCTATATC	CAAAGCCTTT	CCAAATACCT	AGGAAAAGTA	GGAGATAGGG	CCAGATGCCC	3300

			868			
AGGTCAGCGT	AGAAATTGAC	TTCTTTGAGA	CCAAGACTTT	CCAATAGATG	ATTGAACACC	3360
CCTTTATCAA	TATTTAGGAA	GGCATCTGTA	AAGAAACTGA	TGATAACCCA	AGACAAGAAG	3420
TAAGGGAACA	ACATAGAAGT	TTGAAAAATC	TTCACCATTC	TCTTAGAACG	GAGCTCGCTG	3480
AGGATAATGG	CAATCCCTAC	AGATACAACT	AAACCTAGAA	AGATAAAGCC	AAGATTGTAG	3540
AGGACAGTAT	TTCGTGTGAT	AATAAAGGCG	TCTCTTGAAC	TAAATAAGAA	ТСТААААТТА	3600
TCGAGTCCGA	CCCATTTACT	ATTTATGATA	CTATCTATGA	AACCATTACT	GGTCATGTGG	3660
TAGTCTTTGA	AGGCAACCAC	GTTCCCAAAT	ACTGGAATGT	AAAAGAATAG	AATCAACCAG	3720
AGTGCCCCTG	GCAAAACCAT	CAAGAGAAAG	ATCCAGTTGT	CTCTCAATGT	TTTTGAAAAC	3780
TTTTCATAA	TTTCCTCCCT	TTTTATTTTG	ATATCCATCT	AAAAATTCTT	TTTTAGACTT	3840
TTGATAACGA	TTACATTATT	AGTATACTCC	TATTTGCAGG	TTAGGTTAAA	СТССТААТТА	3900
TAGAAAAAAC	TCCACAAATT	ATGTAGCAGA	TTTAAAACTT	TATCACCACT	ATCAAACAAA	3960
TGTCCTAAAT	CAATTGTTTA	TTTTATCTCT	ATTAGCCCAG	TGATGGCGTC	ACTCTGTTAT	4020
AAGCATCCAA	CAACGGGGTA	TACTGAAAAA	TCTCCAGACT	AGGGAACTCA	GCGATAGTTC	4080
CTAATCTGGA	GATTTTTAAT	ATGTTATTAG	GCGTTTGCTT	TCAACTTAGC	AATAACCTCT	4140
PTAAGATTAT	CAATCAACTC	TGCTGCAGTA	TGCTCAGAGC	CTTTTTCATC	TGCCAAGAAC	4200
AAAACTGCTT	TTTGAAGTTC	TTTTTGAGAG	TTTTCAAGGA	CATCCTTATC	TACTGTTTCA	4260
AGGTTTGAGT	CTTTAAGAAG	TTTACTTAAT	TCCTTGGCTA	ATTTCTTGAG	TTTGATTTGC	4320
AGACTCATCT	TCTCCTGCTG	TTTCTTTGCC	CGCTGTTTGT	CCTCCATCCT	TAGTTGCTGA	4380
CTGGCTTTCC	TTAATGGACT	CTAGGGAAGC	AATGGCATCT	TTGACTGTTT	GCAAGATATC	4440
ACGTAAACCT	TGCTCTGTCA	AACTATCATC	TGCAAAAGCT	TTATTAGCCT	CTGCCAAAAC	4500
CAGACGTGCT	GAATCTGTGG	TAGGATTCGA	TACACCTGTC	AATGATCTCA	AAAGATTTTC	4560
FAAGGTTTGA	GTCTGCTTAC	TAATACTAGA	СТААААТСАА	AAAGTATTAT	ATAACAGTGA	4620
FATGAAATCA	ACTAAAGAAG	AAATCCAAAC	CATCAAAACA	CTTTTAAAAG	ACTCTCGTAC	4680
AGCTAAATAT	CATAAACGCC	TTCAAATCGT	TCTATTTTGT	CTGATGGGCA	AATCTTATAA	4740
AGAGATTATA	GAACTTTTAT	AGTAGTTTGA	AATAAGATGT	GAACATCTCT	ATCAGGAAAG	4800
CAAATTAAT	TTATAGAAAT	ATTTTAGCAG	CCAAGGTGTA	CTGTTATAGA	TTCAATACAC	4860
PATACTTGGT	GGTTTAGCTC	G			•	4881

# (2) INFORMATION FOR SEQ ID NO: 126:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 13121 base pairs
 (B) TYPE: nucleic acid

869

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 126:

AGGATCCCCG	GAAAAGGAGA	CTAAAAATGA	AGAAAAAATT	TCTAGCATTT	TTGCTAATTT	<b>6</b> 0
TATTCCCAAT	TTTCTCATTA	GGTATTGCCA	AAGCAGAAAC	GATTAAGATT	GTTTCTGATA	120
CCGCCTATGC	ACCTTTTGAG	TTTAAAGATT	CAGATCAAAC	TTATAAAGGA	ATTGATGTTG	180
ACATTATTAA	CAAAGTCGCT	GAGATTAAAG	GCTGGAACAT	TCAGATGTCC	TATCCTGGAT	240
TTGACGCAGC	AGTCAATGCG	GTTCAAGCTG	GGCAAGCCGA	CGCTATCATG	GCAGGGATGA	300
CAAAGACTAA	AGAACGTGAA	AAAGTCTTCA	CCATGTCTGA	TACTTACTAT	GATACAAAAG	360
TTGTCATTGC	TACTACAAAG	TCACACAAAA	TTAGCAAGTA	CGACCAATTA	ACTGGCAAAA	420
CCGTTGGTGT	TAAAAACGGA	ACTGCCGCTC	AACGTTTCCT	TGAAACAATC	AAAGATAAAT	480
ACGGCTTTAC	TATTAAAACA	TTTGACACTG	GTGATTTAAT	GAACAACAGC	TTGAGTGCTG	540
GTGCCATCGA	TGCCATGATG	GATGACAAAC	CTGTTATCGA	ATATGCCATT	AACCAAGGTC	600
AAGACCTCCA	TATTGAAATG	GATGGTGAAG	CTGTAGGAAG	TTTTGCTTTC	GGTGTGAAAA	660
AAGGAAGTAA	ATACGAGCAC	CTGGTTACTG	AATTTAACCA	AGCCTTGTCT	GAAATGAAAA	720
AAGATGGTAG	TCTTGATAAA	ATTATCAAGA	AATGGACTGC	TTCATCATCT	TCAGCAGTGC	780
CAACTACAAC	TACTCTCGCA	GGATTAAAAG	CTATTCCTGT	TAAGGCTAAA	TATATCATTG	840
CCAGCGATTC	TTCTTTTGCC	CCTTTTGTTT	TCCAAAATTC	AAGCAACCAA	TACACTGGTA	900
TTGATATGGA	ATTGATTAAG	GCAATCGCTA	AAGACCAAGG	TTTTGAAATT	GAAATCACCA	960
ACCCTGGTTT	TGATGCTGCT	ATCAGTGCTG	TCCAAGCTGG	TCAAGCCGAT	GGTATCATCG	1020
CTGGTATGTC	TGTCACAGAT	GCTCGTAAGG	CAACTTTTGA	CTTCTCAGAA	TCATACTACA	1080
CTGCTAATAC	CATTCTTGGT	GTCAAAGAAT	CAAGCAATAT	TGCTTCTTAT	GAAGATCTAA	1140
AAGGAAAGAC	AGTCGGTGTT	AAAAACGGAA	CTGCTTCTCA	AACCTTCCTA	ACAGAAAATC	1200
AAAGCAAATA	CGGCTACAAA	ATCAAAACCT	TTGCTGATGG	TTCTTCAATG	TATGACAGTT	1260
TAAACACTGG	TGCCATTGAT	GCCGTTATGG	ATGATGAACC	TGTTCTCAAA	TATTCTATCA	1320
GCCAAGGTCA	AAAATTGAAA	ACTCCAATCT	CTGGAACTCC	AATCGGTGAA	ACAGCCTTTG	1380
CCGTTAAAAA	AGGAGCAAAT	CCAGAACTGA	TTGAAATGTT	CAACAACGGA	CTTGCAAACC	1440
TTAAAGCAAA	CGGTGAATTC	CAAAAGATTC	TTGACAAATA	CCTAGCTAGC	GAATCTTCAA	1500
CTGCTTCAAC	AAGTACTGTT	GACGAAACAA	CGCTCTGGGG	CTTGCTTCAA	AACAACTACA	1560

AACAACTCCT	TAGCGGTCTT	GGTATCACTC	870 TTGCTCTAGC	тсттатстса	TTTGCTATTG	1620
CCATTGTCAT	CGGAATTATC	TTCGGTATGT	TTAGCGTTAG	CCCATACAAA	TCTCTTCGCG	1680
TCATCTCTGA	GATTTTCGTT	GACGTTATTC	GTGGTATTCC	ATTGATGATT	CTTGCAGCCT	1740
TCATCTTCTG	GGGAATTCCA	AACTTCATCG	AGTCTATCAC	AGGCCAACAA	AGCCCAATTA	1800
ACGACTTTGT	AGCTGGAACC	ATTGCCCTCT	CACTCAATGC	GGCTGCTTAT	ATCGCTGAAA	1860
TCGTTCGTGG	TGGTATTCAG	GCCGTTCCAG	TTGGCCAAAT	GGAAGCCAGC	CGAAGCTTGG	1920
GTATCTCTTA	TGGAAAAACC	ATGCGTAAGA	TTATCTTGCC	ACAAGCAACT	AAATTGATGT	1980
TGCCAAACTT	TGTCAACCAA	TTCGTTATCG	CTCTTAAAGA	TACAACTATC	GTATCTGCTA	2040
TCGGTTTGGT	TGAACTCTTC	CAAACTGGTA	AGATTATCAT	TGCTCGTAAC	TACCAAAGTT	2100
TCAAGATGTA	TGCAATCCTT	GCTATCTTCT	ATCTTGTAAT	TATCACACTT	TTGACTAGAC	2160
TAGCGAAACG	CTTAGAAAAG	AGGATTCGTT	AATGGCAAAA	TTAAAAATTG	ATGTAAATGA	2220
TTTACACAAG	CACTATGGAA	AAAATGAAGT	CCTAAAAGGA	ATTACGACTA	AGTTCTATGA	2280
AGGAGATGTT	GTTTGTATCA	TCGGTCCTTC	AGGTTCTGGT	AAGTCAACTT	TCCTCCGTAG	2340
CCTCAATCTT	TTAGAAGAAG	TCACTAGCGG	TCACATCACT	GTGAACGGCT	ATGATTTAAC	2400
TGAAAAAACA	ACCAATGTTG	ACCACGTCCG	TGAAAATATC	GGCATGGTAT	TCCAACACTT	2460
CAACCTCTTC	CCTCATATGT	CTGTATTGGA	CAACATCACC	TTTGCTCCTA	TTGAGCACAA	2520
GTTGATGACT	AAGGAAGAAG	CTGAGGAATT	GGGAATGGAG	TTGCTTGAAA	AGGTTGGACT	2580
AGCAGATAAA	GCTAATGCCA	ATCCAGATAG	CCTATCAGGT	GGTCAAAAAC	AACGTGTGGC	2640
CATCGCTCGT	GGCCTAGCAA	TGAATCCAGA	CATCATGCTC	TTCGATGAAC	CAACTTCTGC	2700
CCTTGACCCT	GAGATGGTTG	GAGACGTACT	TAACGTTATG	AAGGAATTGG	CTGAGCAAGG	2760
CATGACCATG	ATTATCGTAA	CCCATGAGAT	GGGATTTGCT	CGTCAGGTTG	CCAACCGCGT	2820
TATCTTTACT	GCAGATGGCG	AGTTCCTTGA	AGACGGAACA	CCTGACCAAA	TCTTTGATAA	2880
CCCACAACAC	CCTCGTCTGA	AAGAGTTCTT	AGATAAGGTC	TTAAACGTCT	AAACTCAAAC	2940
TGTAAGGATT	TCCTTGCAGT	TTTTCTACCT	CGTATTGGAA	TTTTTGATTT	TTCGGAAAAT	3000
TATGTTAGAA	TTAAGTTTAT	GAAATGAGGT	TTCCTCATAC	CTAGCAAGAC	TAGGAATAAA	3060
AATAGAAATT	AGGTAGCTAG	ATGTCATCTA	AGGTTATTGT	TACAATTTTC	GGTGCGAGTG	3120
GAGACCTGGC	TAAACGCAAG	CTCTACCCTT	CCCTTTTTAG	ACTATATCAA	TCCGGCAATC	3180
TTTCCAAGCA	CTTTGCCGTT	ATTGGAACTG	CCCGTAGACC	TTGGAGTAAG	GAATATTTTG	3240
AATCTGTAGT	TGTCGAGTCC	ATCCTTGATT	TGGCAGATAG	TACCGAGCAA	GCCCAAGAAT	3300
TTGCTAGCCA	CTTCTACTAT	CAAAGCCATG	ATGTCAATGA	TTCGGAACAT	TATATTGCTT	3360

rgco	STCAATT	ACAAGCTGAG	CTTAATGAAA	AATACCAAGC	TGAACACAAT	AAGCTCTTCT	3420
rct:	PGTCTAT	GGCACCTCAG	TTCTTTGGAA	CCATTGCCAA	ACACCTCAAA	TCTGAAAACA	3480
rtg:	rcgatgg	CAAAGGTTTT	GAGCGCTTGA	TCGTTGAAAA	ACCATTTGGT	ACAGATTACG	3540
CAAC	CTGCAAG	CAAGTTGAAT	GACGAACTCC	TAGCAACATT	TGACGAAGAA	CAAATTTTCC	3600
GTA1	rcgacca	TTATCTTGGT	AAGGAAATGA	TCCAAAGCAT	CTTTGCAGTT	CGCTTTGCAA	3660
ACTI	rgatttt	TGAAAACGTT	TGGAACAAGG	ATTTTATCGA	CAATGTTCAA	ATTACCTTTG	3720
CGG?	AGCGCTT	GGGTGTAGAA	GAACGTGGTG	GCTACTATGA	CCAATCCGGT	GCCCTCCGTG	3780
ACA1	rggtcca	AAACCACACT	CTACAACTTC	TTTCGCTCCT	CGCCATGGAC	AAACCAGCAA	3840
3CT7	CACAAA	AGACGAGATT	CGTGCTGAAA	AGATTAAGGT	CTTTAAAAAC	CTCTATCATC	3900
CAAC	CTGATGA	AGAACTCAAA	GAACACTTTA	TCCGTGGGCA	ATACCGCTCT	GGTAAGATTG	3960
ATG	GCATGAA	ATACATCTCT	TATCGTAGCG	AGCCAAATGT	GAATCCAGAA	TCAACAACTG	4020
AAA	CCTTTAC	ATCTGGTGCC	TTCTTTGTAG	ACAGCGATCG	ATTCCGTGGT	GTTCCTTTCT	4080
rrr	CCGTAC	AGGTAAACGA	CTGACTGAAA	AAGGAACTCA	TGTCAACATC	GTCTTTAAAC	4140
AAA?	rggattc	TATCTTTGGA	GAACCACTTG	CTCCAAATAT	TTTGACCATC	TATATTCAAC	4200
CAAC	CAGAAGG	CTTCTCTCTT	AGCCTAAATG	GGAAGCAAGT	AGGAGAAGAA	TTTAACTTGG	4260
CTCC	TAACTC	ACTTGATTAC	CGTACAGATG	CGACTGCAAC	TGGTGCTTCT	CCAGAACCAT	4320
ACGA	TTAAAA	GATTTATGAT	GTCCTAAATA	ACAACTCAAC	TAACTTTAGC	CACTGGGATG	4380
\AG1	TTGTGC	GTCATGGAAG	TTGATTGACC	GTATTGAAAA	GCTCTGGGCT	GAAAATGGTG	4440
ccc	CACTTCA	TGACTATAAA	GCTGGAAGCA	TGGGACCTCA	AGCCAGCTTT	GACCTACTTG	4500
\AA/	AATTCGG	TGCCAAATGG	ACTTGGCAAC	CAGATATCAC	CTATCGTCAA	GATGGTCGCT	4560
rag <i>i</i>	AAAATAA	AAATTTCCTG	CAAGTTTATG	CCTTGCAGGA	TTTTTGCTTC	TGATTAGATT	4620
AAAC	CTTCCA	AGAGACCTTT	CATAAAGTTT	TCTGAGTTAA	ACTCTCCAAT	ATCATCGATT	4680
r <b>T</b> TT	CACCAA	AACCAATCAA	TTTTACAGGA	ATATTGAGTT	CTTCACGAAT	GGCTAGAACC	4740
CAC	CTCCTC	GAGCAGTTCC	ATCAATCTTA	GTCAAAACAA	TTCCCGTTAA	AGGTGTGATT	4800
PTCG	TTAAAA	CTTTGGCCTG	TACTAGGGCA	TTTTGACCTG	TTGATGCATC	AAGTGCCAAG	4860
AAGO	TTTCAT	GTGGTGCTTC	TGGCACAACA	CGTTTGATAA	TACGACCAAT	CTTTTCCAAC	4920
CAC	CCATAA	GGTTATCCTT	ATTTTGCAGA	CGACCAGCAG	TATCAATCAT	GAGAATATCG	4980
ATAC	CTTCAG	TCACGGCACG	TTCCATAÇCA	TCAAAGACCA	CGCTGGCTGG	ATCAGCTTTT	5040
CAC	GTCCAG	TTACTACTGG	AACATCTACT	CGTCGGCCCC	ATTCAGCTAG	CTGAGCTACT	5100

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GCACCCGCAC	GGAAGGTATC	TGCTGCAACC	AGCATGACCT	TCTTACCAGC	TTGTTTGTAG	5160
CGGTGGGCTA	GTTTTCCGAT	AGAAGTTGTT	TTCCCAACAC	CATTCACACC	AACAAAGAGC	5220
ATAACTGTCA	AGTTATCTTG	GAAGTGGATG	CTTTCATCGT	AGCTACCATC	CTTTTCATAA	5280
AGCTCAACCA	ATTTCTCAAT	GATGACACGA	CGAAGTACAT	CAGGTTTCTT	GGCATTTTCA	5340
AGCTTGGCTT	CGTAACGTAG	TTCCTCCGTT	AAGTTAGAAG	CGACTTGGAC	ACCAACATCA	5400
CTCATAATCA	GCAGTTCTTC	CAGTTCCTCG	AAAAATTCTT	CGTCAACAGA	GCGGAAGTTA	5460
GCAAAGAAGG	CATTCAAGCG	GGCACCGAAA	CCTGTGCGAG	TTTTCTTAAG	ACTGCGGTCA	5520
TATTTTTCCT	GAACAGTTTC	TTCTGTTTGA	GGAGCTTCTG	GTTCAAGCAC	TTCAGAATTA	5580
ттттсттста	CAGTTCCTTC	GTGCTCAAGC	ттстсттсст	CTGGTAATTC	TTCTGAGTTT	5640
GGTAATTCTT	CTATTTCTTC	TTGAGAAACC	CCTACAGCTG	GCTCTGAATC	CTGACTTTCT	5700
TCAACTGTGT	CTTGGATTTC	CTCTTCTTGG	AACACAGCTT	GTTCAACAAT	TTCAACCTCT	5760
GCTTCTTCCT	GAGAAACTTC	CTCAACTTCT	GTGAAGGTAG	GATCAACATC	TTCAGACAAA	5820
TCAAGATTTT	CCAGAGCTTC	TTTTACAACT	TCTTCGATTT	TAGGTTCTTC	TTTTTTTCCG	5880
AATAGACGGT	CAAACAATCC	CATATCTTAG	TTCTCCTTTA	GCACATATTC	TTCGATAGCC	5940
CAGGCGACAG	CTTCCTCATC	GTTGGTCATC	GGCGTCACTA	CATTTGCGGC	TGCCTTTACT	6000
TCAGGAACAG	CGTTTTGCAT	AGCAACACCA	AGACCTGCCC	ATTCAATCAT	AGAGAGGTCA	6060
TTGGCCTCGT	CACCACAAGC	CATCACTTGA	CTTTGGTCGA	TTCCAAGATG	GCTGATTAGT	6120
TTTGCCAAAC	CTGTTGCTTT	ATGAACATTC	TTTGGTGACC	ATTCTAGCAA	CATTTCACGT	6180
GATTTAAAGA	TTTCATATTG	GTCAAACAAT	TCTGGAGAAA	TCTTCTGAAT	GGCTGCATCC	6240
AAGGGTTCTT	GAGCAAAGGC	AGTCACGCAT	TTGTTGTAGG	TCATTTGACT	AGATAAGTCT	6300
TCAAAGTCCA	CTGGAACAAA	GGTCAAAGCT	GGATTGAATT	TGGCATAAAG	ACTTTCTTGG	6360
TCCGATTGGA	TTTGATAAAC	TGTTCCTTCT	GAGATGGCAT	CAAGAGGCAG	TGATAATTTC	6420
TCTGTTTCTT	CATACAAACG	TGCCACATCA	TCATATGAAA	AGACTGTTTT	ATCAAGGATT	6480
TCTCCTGTAT	TTTTCTGAAC	TAATCCACCA	TTAAAAGTAA	TGGTATACTC	ATCTTCCTGA	6540
CCGTCAGTCC	CTAACTCATG	GAGAAAGAAA	TCCATGGCTT	TTAAGGGACG	ACCAGTTGTC	6600
AATACGACCT	TGATACCACG	ATCACGCGCA	gCTTGCAAGG	TTTCCTTGGT	ACGATCCGTC	6660
AGCCTTTTAT	CAGTAGTCAG	CAAGGTCCCG	TCCAAGTCCA	ATGCAATCAA	TTTTATATCT	6720
GCCATTATAA	GCCCTCCATA	TAAGCTATAA	CCGACCGTTC	CTTATGGTGA	CCAATCACAG	6780
TCTTTGCTAA	TTCTAAAATT	TCAGGTCGTG	CATTTTCAGG	AGCTACAGGA	TGTCCCACAA	6840
CCTGCATCAT	ATGTAAGTCA	TTAAGATTGT	CTCCAAAAGC	CATGACCTGA	TCCATTGTGA	6900

PACCAAGTTT	TTTAACTAAT	TCAACAATGG	CCACTCCCTT	ATCGACATAG	TCCAGAACAA	6960
TATCAATGGA	TTCAAAGCCA	GTTGTCATGG	CCTTAACACC	AGGAACGTTT	TCGTTTACCC	7020
AGCCTCCCC	ATCTTCCAGC	GTTTCTTCTG	TGAAGTTGGT	TGTAAATTTG	AAAATGTCAT	7086
TGTGATATC	TTCCAAACTC	GCTACTTTTT	GGATATTTTC	ATTATAGTGC	TGACTCACTT	.7140
<b>PCAAATAGGT</b>	CTCATCAACC	GTATCTAGAA	CATATGAACC	CTTCTTACCC	GTCAAGAGCA	720
GTTTATTGAT	ATCTACATAA	GGTGAAGTTT	TCAGCTTTTC	AAAAGTTGCC	AGATAAAAGT	726
CACGAGACAT	AGTCGCTTCA	TACAAGTCCT	GACCTTGATA	CTCTACCAAA	CTGCCATTTT	7326
CCGCGATGAA	AATAATGTCA	TCACGAACAC	CAGCAAATAA	TTTTTCTAGA	GACAGAAATC	7386
CCCGACCCGA	AGCTACCGCA	AAGTAAATCC	CTTTTTCCTT	GTAGGAAACC	AAGAGAGACT	7440
rgagacgatc	CATATCAAAG	CGTCCATTCC	CATCTAGGAA	GGTTCCGTCC	ATATCCGTTG	750
CTACTAGTTT	AATTGTCATC	CTTCAATACT	TTCTAAATCT	TTTAACTTAA	CTGAAACAAT	756
TTTGAAACA	CCCGATTCTT	GCATGGTCAC	TCCATAGATG	GAATCAGCCG	CTGCCATGGT	7620
CCCTTACGG	TGGGTTACGA	CGATGAACTG	GCTGTCCTTG	TCAAAGCGGT	TGAGGTAATC	768
CCAAAACGT	TTAACATTGG	CTTCATCCAG	CGCAGCTTCC	ACCTCATCCA	AGATAACAAA	774
rggaatagtc	TTGACACGAA	TAATGGAGAA	GAGCAAGGCA	AGAGCCGATA	GGGCTTTTTC	780
ACCACCACTC	ATGAGATTAA	GAGACTGGAT	TTTCTTGCCT	GGTGGTTGGA	CAGAAATTTC	786
AACCCCAGCT	GTCAGCAAGT	CTCCTTCAGT	CAAAATGAGG	TCAGCCTGAC	CTCCACCAAA	792
CATCTGCTTG	AAGGTCACTT	TAAAGGACTC	ACGAATGACC	TCAAAGGTTG	ATTTAAAGCG	798
TCCTTGACC	TCATCATTCA	TCTCTGTAAT	GGTCTCAAGG	AGCAGGTTTT	TCGCAGACAA	804
AATATCATCA	CGTTGGCTAT	TTAGGAAATC	CAGACGGTTG	TGAACTTCTT	CGTACTGTTC	810
AATAGCGTCT	AAATTGACAG	GACCCAGTGA	GCGTATAGCC	TTCTCTAAAT	CCTTAACTTC	816
TTGCTCTGCC	AGATTGAGAT	TTTCCAACTC	ATGCGCCTTT	TCTAAAGCTT	CTGTGTAGCT	822
GATCTGGTAC	TGGTCTGTTA	ATTGACTTTG	TAGATGGCGC	AAGCGCTCGC	TAACCTTTTC	828
TTCTTGGCT	TCAGCACGAG	TTTGCTTGCG	AATCCACTCT	TCATTCTGCT	GGCGAGCCTG	834
ATCCAAATGA	CTAGCAATAT	CATCCAGTTG	ACCCTCAATA	TCATCCAACT	CAAACTGCTT	840
CGAATCAAA	CCTTGTTGGA	GATTTGTTTT	TTGAGTTTTG	GATTCTTCCG	CCTGTTGACT	846
GAGCAATTCT	GTATCAACCT	TCTCAAGATT	ATCAATCTTT	TCTTGAAGAA	GGCGCTGGAT	852
PTCCTCTTGT	TCAAAATCAA	GATTGTCCAA	TTCCTTGCCT	AAGCGTTCAA	TATCAGCAAC	858
mas a a a a	mmmmaaaaa	COX COMOONCO	OUUN 2 CC 2 2 2		CM3 CCMCMMC	064

			874			
CTGCAAGTTT	TGATAGCGTT	CTTGGATGGC	ATTTTTGTTA	GACTTAATCT	CTTCAATCTC	8700
AGCTTCCAGA	TTTTGCTTGT	CACTGGAGAT	TGCAGCAAGA	CGCTCTTGGC	AGTTTTCCTT	8760
ATCCGCTTGC	CAATCTCCCT	CGGAAAGACG	ATCTATTTCC	TCTTCTTGGA	GTTTCCAAAG	8820
AGTTTCCAGT	TCTTCAACTT	GCTGACTAGT	TTGCTGATAA	GCGAGGAACA	AGCCTTGCTC	8880
CTGAATACGT	GCCTGCTCTC	CTTGAGATTT	AATAGCTTCT	AATGACTCGG	TCAATCTGGC	8940
CATCTCATCT	TGCAAGGTCT	TCAAAGTCGC	CTCTTCTGAA	CCCAAGCTTG	CTTCTTCTTC	9000
AGCAATTTCT	TTTTGTAATT	GCTCCAGTTC	TGGCTTGATA	AAAATGCTGT	TATTCTGGCG	9060
ATTGGCACCA	CCTGCATAAG	AACCACCTGT	GCGCAACTCT	GTCCCATCCA	ATGTCACCAT	9120
ACGAACCTGA	TAACGAACTT	GGCGAGCTGC	TGCACGCGCA	TGTTCTACGG	TATCAAAGAT	9180
AGCCGTCGTA	GCTAGCAAGT	TCTTGAAAAT	GGCTTCCAGT	CTAGTATCAA	AAGTCACCAA	9240
CTCATCTGCC	ATCCCAAGGA	AACCTGGGCT	TACAGCGATA	GCATCTTGGT	TCTGACTAGA	9300
AATCGTACGC	GCCTTGATAG	TGGTCAAAGG	AAGAAAGGTT	GCACGACCGG	CTCTGTTCCG	9360
TTTAAGGAAG	TCAATAGCCT	TGGTTGCCGA	CTCTTCATCT	TCTACGATGA	TATGCTGGCT	9420
ACTTGCCCCT	AAGGCAATCT	CTAGGGCAGT	TTGATAATAA	ACATCAAAGG	TCAGATGCTC	9480
ACTGACTGCA	CCAATAATCC	CACCTAGGCG	ATCTTTTTCT	TGGAGAACAC	TCTTAACACC	. 9540
TGCATAAAAG	TTACTATGAT	TTCTCAGGAT	ATTTTCCAAA	CTTTGAGCTC	TGGCCTGCTT	9600
GTTTTTGAGA	TTATCCAGAC	GGTCAAAGAG	TTGGCTTTGT	TGAGCTTGAT	AGGAAGTTTT	9660
CTGCTCCTCT	TGCTCCTTGG	CAATAGCTTG	GTAGTCAGCC	AATAATTTCT	GAACCTGCTC	9720
CTTGGCAGTT	TCAAGCTCTT	CCTTTTGCTG	ACTAGCCTTC	TCTTTAGCTA	TAGCTAATTG	9780
CTCTTTCAGC	TTTTCTAGTT	GATCTGCTTG	TTTTTGAGAA	AGCTGACGAC	TATTTTCCAA	9840
CTCATTCTCA	ATACGGGTCA	ACTGGTTTGA	GACATCCGCT	TCTTCTTGTA	AAAGAGCTAC	9900
AAAGCGTTCA	CGTAAGAGCT	CAATCATCTG	ATCAGGATCG	TCTGAGAAAG	CCAGCAATTC	9960
AGCTTCTAAA	CGATTGAGTT	TTTGATTATT	TTGGACTAGA	TTTCCCTCTA	ACAGAGCTAA	10020
AGAGCTTTCT	TTATCAGACT	TTTCTTTGCT	GAGTGAATTT	CTCTTATCCT	CCAAAGCAGC	10080
CAAACGGGCT	TGTGCCTCCT	GTTGATTCAA	GGCCACTTGC	TCGGACTCCA	GTTTCGATAG	10140
GGCTAATTTT	CTTTCTAAAT	CACTAATCAG	ACTAGTCAAG	TCCATCAAAC	TGCCTTGGTC	10200
TTTGGCCATT	TCAGCCTGTA	AATCTTGGCG	TTGCTTTTTA	AGAGTTTGAT	TTTCTTCTTC	10260
TAATTTTTCA	CGCTTTTGGT	AATAACTCAT	CAAGAGTTCT	TGAACCTGAG	TCAACTCTTC	10320
TTCTGTCGAC	TCTAGTTCAG	CCTTATTTTC	CTTGATTTGA	GCAACCAGAA	САТСТАААТА	10380
AATAGCCTTA	CGTTGTCCTT	CCAAGTCTAA	AAACTTACGG	GCATTCTCAG	CTTGCTTCTC	10440

AAGAGGCTTG	ATTTGATTAT	CCAACTCGTA	GATAATGTCC	TCTAAGCGGT	CCAGATTATC	10500
CTGAGTTTGC	TGCAGTTTAC	TCTCGGTTTC	TTTTCTGCGA	GTCTTGTATT	TTAAAACTCC	10560
AGCAGCTTCT	TCAAAAATAG	CTCGTCGTTC	CTCAGGCTTG	GAATTAAAAA	TCTCCTCAAC	10620
CTTCCCTTGG	GAAATAATAG	AGAAGGAATC	TCGTCCCAAT	CCAGTATCCA	AGAAGAGGTC	10680
ATGAATATCA	CGCAGACGGA	CTTTCTTGCC	GTCAATCTTG	TATTCGCTAT	CTCCACTACG	10740
ATAGACATGG	CGTTCCACCC	TGATTTCTTG	ACCTGCATCC	TTGATAAATC	CGTCATGATT	10800
ATCCAGAGTC	ACAACTACAG	AAGCATAATT	GAGCGGTTTG	CGACTTTCGG	TTCCAGCAAA	10860
GATGATATCC	GGCATCTTGC	CCCCACGGAG	ACTCTTGACA	CTAGACTCCC	CCAAAGCCCA	10920
ACGCAGACTT	TCTGTAATAT	TGGACTTTCC	AGATCCATTG	GGTCCAACAA	CTGCCGTCAC	10980
ACCTTGGTCA	AAAACGACCT	TGGTCTTATC	AGCAAAAGAC	TTGAACCCCT	GAATTTCGAT	11040
TTCCTTTAAA	TACATGAATC	CAGCCCCTTC	TCAACGGCAT	TTTTGGCAGC	TTCCTGCTCT	11100
GCTAATTTCT	TAGAACGACC	TTGGCCTTGA	CCGATGCTCT	TACCTTCAAC	AAGAACTTCT	11160
ACATCAAAAA	CCTTATCGTG	AGCAGGCCCT	GTTTCAGAAA	TCACCTGATA	ACGAATAGCC	11220
ACATCACCAT	TGACCTGAAG	CAACTCTTGG	AGATGGGTTT	TATAGTCTGT	AATCATCTCA	11280
AACTCGCCTG	CTTCAACCTT	AGGAATCATG	ACTTGATAGA	TAAATTCCTT	GACCTTGGCC	11340
ACATCCTTAT	CCAAAAGAAG	GGCACCAAGA	AAGGCTTCAA	AGGCATCACC	AAGAATGGTG	11400
TCACGATTGC	GACCACCTGA	TTTTTCTTCC	CCTTTACCCA	ACTTGATAAA	CTGGTCAAAC	11460
TGGCAATCAC	GCGCAAAACC	AGCTAAACTC	TCCTCACGGA	CAATCATAGC	ACGGAGTTTT	11520
GATAGGTCAC	CTTCAGGCTT	TTTAGGATAT	TTTTTATATA	GATATTCTGA	AATCAATAAC	11580
TGTAGAACAG	CGTCTCCTAA	AAATTCCAAG	CGTTCATTGT	GTGAAATTTT	TAAGAGGCGG	11640
TGCTCATTGG	CATAACTCGT	ATGAGTAAAG	GCAGTTTCCA	GTAACTTTTT	GTCTGCAAAT	11700
TCGATTGCAA	AATGATTCTT	TAGTACAGTT	TGTAATTCTT	TCATACCAAC	CTCTTTCTAA	11760
CTGATAATAG	TCCTTTTTAT	TATATCAAAA	AAAGCCCCCT.	GAGTCACTCT	AAAACGGGAC	11820
TGGAAAGCAT	TTGGGAATTC	TTTAGACAGA	GATTCTCAGT	TTTAGCGGCA	AATTTGGGTC	11880
aggataaaga	AAAAAGCCCT	ATTAAAGGCT	TTTTAGGATG	TTTACATCCA	CCCTGAGGGA	11940
ATCGAACCCC	CATCTCAAGA	ACCGGAATCT	TACGTGATAT	CCATTACACT	AAGGGTGGAA	12000
ACTTGTTTTA	TTATAACAGA	AATTTGCTCT	AATAACAAGT	TTTTTGGTCA	AAGACCCCGT	12060
CTTAGTGGGA	AGCATCCCCA	TTCCAGATGG	AGTTTTTCAC	GATCACATAA	TCAACGTGTT	12120
TAAGGTCAGC	AACCTGACGT	CCACCTGCAT	AAGAAATAGC	ACTTTGAAGG	TCTTGTTCCA	12180

			876			
TCTCAGTTAA	AGTGTCTTGC	AGATGACCTT	TAGCAGGAAG	CAAGATACGT	TTGCCTTCCA	12240
CATTTTTGTA	AGCACCTTTT	TGATATTGTG	AGGCTGAACC	ATAATATTCT	TTGAACTGTT	12300
CACCATCGAC	TTCAATCGTT	TTCCCTGGAC	TTTCAATGTG	TCCTGCAAAG	AGGGAACCAA	12360
TCATGATCAT	GCTAGCACCG	AAGCGGATAG	ACTTAGCAAT	ATCACCGTGA	GTACGAATTC	12420
CTCCATCAGC	GATAATCGGT	TTACGCGCAG	CCTTGGCACA	CCAGCGTAGA	GCAGCCAACT	12480
GCCAACCACC	TGTACCAAAA	CCAGTCTTAA	CCTTGGTGAT	ACAAACCTTA	CCAGGACCGA	12540
TTCCGACCTT	AGTAGCATCC	GCACCAGCAT	TTTCCAATTC	ACGCACAGCT	TCTGGTGTTC	12600
CCACATTTCC	AGCAATGACA	AAGGTATCTG	GCAATTCTTT	CTTGATGTGT	TGAATCATAG	12660
AAATCACGCT	ATCCGCATGA	CCATGAGCAA	TATCAATAGT	GATATACTCA	GGAGTATCAG	12720
CCTTGAGCTG	GCTAACAAAA	TCATACTCAT	AATCCTTAAC	ACCGACAGAG	ATAGAAGCAA	12780
TGAGCCCTTG	ATTGTGCATT	CGTTTAATAA	AAGGAATGCG	TCCTGCCTCA	TCAAAACGGT	12840
GCATAATGTA	GAAGTAACCA	CCTTTAGCCA	GTTGCTCTGC	TACATTTTCA	TCCAAAATCG	12900
TCTGCATATT	CGCTGGCACA	ACAGGTAGTT	TAAAGGTGTG	ATTTCCTAAA	GTGACACTTG	12960
TATCCGCTTC	TGCACGGCTT	TTAATGACAC	ATTTATTTGG	AATCAATTGA.	ATATCTTCGT	13020
AATCAAAAT	TGGAAATTCA	TTTAACATAT	CGATGTCTCG	TTTCTTTTGT	AATGACCTAC	13080
CTATGCTCTT	GCATCACTAC	GCCTTTTCCG	ACGTTTCCTG	G		13121
(2) INFORM	ATION FOR SE	Q ID NO: 12	27:			
(i) SI	COLLENCE CHAR	ACTED TOTTO				

(A) LENGTH: 9578 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 127:

CCGAATGCAA	TGTTTACGGT	TGAACTTGAA	AATGGACATC	AGATTTTAGC	AACAGTTTCT	60
GGTAAAATTC	GTAAAAACTA	TATTCGTATT	TTAGCGGGAG	ATCGTGTTAC	TGTCGAAATG	120
AGTCCATATG	ACTTGACACG	TGGACGTATC	ACTTACCGCT	TTAAATAATC	GAAAAACTTG	180
GAGGGATAAG	AAATGAAAGT	AAGACCATCG	GTCAAACCAA	TTTGCGAATA	CTGTAAAGTT	240
ATTCGTCGTA	ATGGTCGTGT	TATGGTAATT	TGCCCAGCAA	ATCCAAAACA	CAAACAACGT .	300
CAAGGATAAG	ATAGAAAGGA	GAAAACATGG	CTCGTATTGC	TGGAGTTGAT	ATTCCAAATG	360
ACAAACGCGT	AGTAATCTCA	TTGACTTATG	TTTATGGTAT	CGGACTTGCA	ACATCTAAGA	420
AAATTTTGGC	TGCTGCTGGA	ATCTCAGAAG	ATGTTCGTGT	ACGTGATCTT	ACATCAGATC	480

540	CTTCGTCGTG	TGAAGGTGAC	CAATCAAAGT	GAAGTGGATG	TATCCGTCGT	AAGAAGATGC
600	ATCCGTCACC	ATACCGTGGT	AAATCGGTTC	CGTTTGATGG	GAACATCAAA	AAGTAAACTT
660	CGTAAAGGTA	CGCCCGCACT	СТАААААСАА	GGACAAAACA	TCCTGTCCGT	GTCGTGGACT
720	TGGCTAAACC	GTAAAAGTCT	AATATAGGAG	AAGAAAAAAT	GATTGCTGGT	AAGCTGTTGC
780	TTCACGCTAC	ATTGCTCATA	CGAATCTGGT	AAAAGAATAT	CGTCGTGTGA	<b>AACACGTAAA</b>
840	CTTGGTCATC	AATGCAATTG	TGTGCATGGT	TGATTACTGA	ACTATTGTTA	atttaataac
900	CTCAAATGGC	CCATTCGCTG	TAAATCTACA	AAGGTTCTCG	CTTGGTTTCA	AGCTGGTGCT
960	AAGTTACTGT	AAATCAGTTG	ACACGGTCTT	CTGCACAAGA	GCTGCTAAAT	ITCTGAAGCT
1020	CTGGTCTTGA	CTTGCTGCCG	TATTCGTGCG	GTGAGTCAGC	GGTTCTGGTC	AAAAGGTCCA
1080	CTCCAAAACG	GGTGCTCGTC	GCCACACAAT	TGACTCCAGT	ATTCGTGATG	AGTAACAGCA
1140	ACTAAATGAT	AGAGGGAGTA	TTTTCGTTTA	ATTACACTGC	TAATCATCGC	TCGCCGTGTA
1200	GCAAGTTTGT	AAAGATTATG	TGATGAAAAT	TAACAAAAAT	AAACCAAATA	CGAGTTTGAA
1260	GTCGTGTACT	AACTCTCTTC	AACTCTTGGT	GCTACGGTAC	CTTGAACGTG	AATCGAACCA
1320	TGTTACATGA	ATTGATGGTG	ATCTATCAAC	CAGCTGTGAC	CTACCAGGAG	TCTAGCTTCT
1380	ACATTAAAGG	ATCATTCTGA	CGTGATGCAA	TTCGTGAAGA	GTTCCAGGTG	GTTTGACACA
1440	TTGAAGGTCC	GAACTGGATG	AAAAATCATC	TTGAAGACGA	AAATCGTACG	AATTGCAGTG
1500	TAAATCCAGA	ATTGAAATTG	AGATAGCGAT	ACATTTTGAC	ACAGCTGGTG	TGCTGAAGTA
1560	CTGTTAACAG	GCGACTATGA	TTCTCTAAAA	GTGAAGGTTC	TTTACAATCG	TCATTATCTC
1620	TTGGAACACT	AATGCACCAG	TAAAAAGGAT	CTGATGAAAA	TATGTACCTG	TGGTCGTGGA
1680	AACCTGCTCG	TATCAAGTGG	AAAAGTCAAC	CACCAGTTAC	TCTATTTATA	IGCTGTAGAT
1740	ATGGAACAAT	ATCTTGACAA	AACCCTTGAA	TCGACAAATT	AATGATGGTT	IGTAGGTAGC
1800	TTGATTTGTT	ACAGAACATC	ACGTATTTTG	GGCTTTCAGC	GATGCTTTAG	<b>FATTCCAGAA</b>
1860	ATACTGAATC	AAAGAAGCTG	TGAAGTGATG	CTAAGTCAAC	ACTGAGATTG	PACAAATCTT
1920	GTTCATACAA	TTGTCTGTGC	GGAACTGGAC	GTACGATTGA	ATTTTAGATC	<b>IGACGACCGT</b>
1980	CTGAAGCAGA	ACAGAAAAAT	GCATGATTTG	TCAATACTGT	CGTGCCGGTA	CTGTTTAAAA
2040	TCAAACTCAT	GAAGTGAAAC	GAGTTTGGAA	TTGGACGCAA	GTACGAAATC	GATGATGAAA
2100	CCGTAAACTA	ACATGGCTTA	AAGGAGGAAT	AAGATAAATA	CTTGGATTAA	rgatttgggt
2160	CCTTTTGATC	TGACAACTGA	CTTCGCGATT	TAAAGCAATG	GCTCACAACG	GGACGCACTA
2220	mcmmcaaaaa	mcccmx x x x c	COMBANCAAR	mc a a comoon	mccmcxcxxc	*****

878 ATGATTACTC TAGGTAAACG TGGTGATTTG CATGCACGTC GTCAAGCAGC TGCTTTCGTA 2280 CGTAATGAAA TCGCATCTGA AAACTATGAT GAAGCAACTG ATAAGTACAC TTCTACTACA 2340 GCACTTCAAA AATTGTTCTC AGAAATCGCA CCTCGTTATG CTGAACGTAA CGGTGGATAC 2400 ACTCGTATCC TTAAAACTGA ATCACGTCGT GGTGATGCAG CGCCAATGGC GATCATCGAA 2460 TTAGTATAAA ATCATCAATT TTGTTGAGTG TTATGATGAT GGAGTCTTGT GCTCTTAGTC 2520 TAGCTCTGGT CTACCGCTAG GATTTCGGTC CTAGCGGGAA CACTCATCAT AAGTTGGGAT 2580 AGTAGACGCT TGTTTACGAA ATTGTTTTTT TCTTAAGAAC AACTTCGTAA GCAGGCGTTT 2640 TTGAGTATTT TCGTTAGAAT TATGCTATAC TATTTGAAAA GAATCCTGTT TAATGTTAAG 2700 GTTTCTTATT TTAAGAAGAA TTGGAGTTTA CTTATGAAAG CCATTATAAC TGTTGTTGGT 2760 AAAGATAAAT CTGGAATTGT TGCAGGTGTT TCTGGTAAAA TTGCAGAATT AGGATTGAAT 2820 ATTGACGATA TCTCTCAAAC TGTCTTGGAT GAATATTTTA CGATGATGGC TGTTGTATCT 2880 AGTGATGAAA AGCAAGATTT TACCTATCTT CGTAATGAAT TTGAAGCTTT TGGGCAAACT 2940 TTGAATGTAA AAATCAATAT TCAGAGTGCA GCGATTTTCG AAGCTATGTA TAATATCTAG 3000 GAGGTCATCA TGGATATTAG ACAAGTTACT GAAACCATCG CCATGATTGA GGAGCAAAAC 3060 TTCGATATTA GAACCATTAC CATGGGGATT TCTCTTTTGG ACTGTATCGA TCCAGATATC 3120 AATCGTGCTG CGGAGAAAAT CTATCAAAAA ATTACGACAA AGGCGGCTAA TTTAGTAGCT 3180 GTTGGTGATG AAATTGCGGC TGAGTTGGGA ATTCCTATCG TTAATAAGCG TGTATCGGTG 3240 ACACCTATTT CTCTGATTGG GGCAGCGACA GATGCGACGG ACTACGTGGT TCTGGCAAAA 3300 GCGCTTGATA AGGCTGCGAA AGAGATTGGT GTGGACTTTA TTGGTGGTTT TTCTGCCTTA 3360 3420 GCTGAGACGG ATAAGGTCTG CTCGTCAGTC AATATCGGCT CAACCAAGTC TGGTATTAAT 3480 ATGACGCTG TGGCAGATAT GGGACGAATT ATCAAGGAAA CAGCAAATCT TTCAGATATG 3540 GGAGTGGCCA AGTTGGTTGT ATTCGCTAAT GCTGTTGAGG ACAATCCATT TATGGCGGGT 3600 GCCTTTCATG GTGTTGGGGA AGCAGATGTT ATCATCAATG TCGGAGTTTC TGGTCCTGGT 3660 GTTGTGAAAC GTGCTTTGGA AAAAGTTCGT GGACAGAGCT TTGATGTAGT AGCCGAAACA 3720 GTTAAGAAAA CTGCCTTTAA AATCACTCGT ATCGGTCAAT TGGTTGGTCA AATGGCCAGT 3780 GAGAGACTGG GTGTGGAGTT TGGTATTGTG GACTTGAGTT TGGCACCAAC CCCTGCGGTT 3840 GGAGACTCTG TGGCACGTGT CCTTGAGGAA ATGGGGCTAG AAACAGTTGG CACGCATGGA 3900 ACGACGGCTG CCTTGGCCCT CTTGAACGAC CAAGTTAAAA AGGGTGGAGT GATGGCCTGC 3960

AACCAAGTCG GTGGTTTATC TGGTGCCTTT ATCCCTGTTT CTGAGGATGA AGGAATGATT

GCTGCA	GTGC	AAAATGGCTC	ТСТТААТТТА	GAAAAACTAG	AAGCTATGAC	GGCTATCTGT	4080
TCTGTT	GGAT	TGGATATGAT	TGCCATCCCA	GAAGATACGC	CTGCTGAAAC	TATTGCGGCT	4140
ATGATT	GCGG	ATGAAGCAGC	AATCGGTGTT	ATCAACATGA	AAACAACAGC	TGTTCGTATC	4200
ATTCCC	AAAG	GAAAAGAAGG	CGATATGATT	GAGTTTGGTG	GTCTATTAGG	AACTGCACCC	4260
GTTATG	AAGG	TTAATGGGGC	TTCGTCTGTC	GACTTCATCT	CTCGCGGTGG	ACAAATCCCA	4320
GCACCA	ATTC	ATAGTTTTAA	AAATTAAGAA	AATAGGAGAA	ATTTTAAGTT	CTATTTAAGA	4380
TTAGAC	GTGT	ATACTATAAT	САТТАААТАА	AGACCTCCTA	ATATTATTTG	AAACAGATAA	4440
CACTGA	ATTA	GTTTGAATTT	GATTTTCATC	TAATATCTTT	ATTTAATGAA	СТССТАААСТ	4500
TTTTCA	TAAT	AATCTCCTTC	AAAAGTCGCC	TGTATGGGTG	GCTTTTATTT	TATCATTCAT	4560
GATATA	ATAG	AAGCAAACGG	AGGACGGAAA	ATGGTAAAAG	TACGATTGTA	TTTGGTACGT	4620
CATGGC	AAGA	CCATGTTTAA	CACGATTGGT	CGCGCGCAAG	GTTGGAGCGA	TACTCCCTTA	4680
ACTGCT	GAAG	GTGAACGAGG	GATTCAAGAG	TTAGGAATCG	GTTTGCGAGA	ATCTGATCTA	4740
CAGTTT	GAGC	GTGCTTATTC	GAGTGATTCT	GGTCGTACCA	TTCAGACCAT	GGGAATTATC	4800
CTTGAA	GAAC	TTGGCTTGCA	GGGGGAAATC	CCTTATCGCA	TGGACAAGCG	TATCAGAGAA	4860
TGGTGT	TTCG	GTAGTTTTGA	TGGAGCCTAT	GATGGCGATC	TTTTCATGGG	CATTATTCCT	4920
CGTATC	TTTA	ATGTGGACCA	CGTTCACCAA	TTGTCTTATG	CTGAACTGGC	TGAGGGCTTG	4980
GTAGAG	GTCG	ATACAGCTGG	TTGGGCTGAA	GGCTGGGAAA	AACTCAGTGG	CCGAATCAAG	5040
GAAGGC	TTTG	AAATGATTGC	AAAAGAAATG	GAAGATCAAG	GTGGAGGTAA	CGCCCTTGTT	5100
GTCAGC	CATG	GAATGACTAT	TGGAACCATT	GTTTATCTGA	TTAATGGCAT	GCATCCGCAT	5160
GGTCTG	GATA	ATGGTAGCGT	GACAATCCTT	GAATATGAGG	ACGGCCAGTT	TAGGGTTGAA	5220
GTTGTC	GGTG	ACCGTAGTTA	CCGAGAGCTA	GGACGTGAGA	AGATGGAAGA	AGGCTCTATT	5280
PAATCA	GTCT	AGACTTGCTT	GCCATGAGCT	AGGGATTTGA	TAAGAATATC	AAGATAAGAA	5340
AAAACA	GCCG	AGGGCACTCC	TTTCGGCTGT	TTTTGATGTG	GAAAACTAAA	GTGTAATGCT	5400
ATTGCT	TTTA	GAGATTTTCA	TAAACAAGAG	CAAGGAACCT	ACTGTTAGAA	CAGTCAGGAT	5460
AGTTGA	CAAG	GTTGCGGCTA	CACCGTAATT	TCCTCTGAGA	ACCTCTGTAT	AAATAGCTAC	5520
AGTCAT	TGTT	CTTGTTTTGA	CATTGTAGAG	GAGGATAGAA	GTAGAGAGTT	TTGAAATCAT	5580
<b>IGTGAC</b>	TCAA	GATAAGATGG	CTCCAGAAAT	GATACCAGAT	AGCATCATTG	GAGTTGTAAT	5640
CTTAGC.	AAAG	GTATTGAGAC	GACTACTTCC	TAAGCTTTCA	GCAGCTTCTT	CAATACTTGG	5700
<b>IGCTAT</b>	TTGT	TGTAAGCTAG	CAACAGATGA	GCGAATAGTA	TAAGGTAATC	TTCTGGCAGA	5760

880 TAGAGACATA ATCAAGATGA AAGCAGTCCC TGTAATCATA AGAAATCCAC TTCCAAATAG 5820 ACCAGTATTG AAGGAAGAAA TGAAGGCAAT CCCTAGAACG GTTCCTGGTA CAATATAAGG 5880 TACCATACTG AGGCTGTCAA TTAAGTTTGT AAACAAATTC CGTTTTCTAA CGGCTAGGTA 5940 GGAGATAAAT GTCGCAAATA GAACAACTAG AACTAAGGCA ATCAAAGGGA TACGAATGGT 6000 ATTGAAAATA GCAGATCCCA TACGATGGAA AGCTACCTTG TAACTGTTTG GAGAATAACC 6060 TTTAACAGAT ACCATACCTG ATGTTTTTAG GAAAGAGGTA TAAATTAAGT AGATTTGAGG 6120 TAAAACAGAG ATAAAGATAA TTCCGTAGAC TGTTGCATAA ATGGCAGCCA TTTTTCCTTT 6180 TGTAGTTTTT TTAGGCTCAA TTGGATGGAG CAGATTCATG CTGAAACTGT AGCGGTTTGC 6240 AATGTGTTTT TGGATAAGGA AAATTGCCAA GGCAATGATA ATCGCCATAA TTGCAAAAGC 6300 AGAATTTCCT CCAACCTCGC TAATAAATTG GGTATAAATC AGGACAGGGA AAGTCCGATA 6360 CCCTTCGCCA ATCAACATAG GCGTTCCAAA GTCTGAGAAT GCTCTCATAA ATACAAGCAA 6420 GGAGCTGCTA GTAAGGTTGG AACTAGGAGA GGTAAAACAA CCGTTACGAT AGGTTTAAAT 6480 CCGAAGGACC CCATGCTTC AGCTGCTTCA AGTAGAGAAT TGTCAATACT GTTCATTGTT 6540 CCAGCAACAT ATAGAAATAC CAGTGGGAAT AGTTGCAGTG TAAAGACAAG TACAATTCCT 6600 TTGAATCAAT AAATATCGAT AGCTGGAAGA TAAAGGGCAT TTGTCAAAAA TTTAGTGATG 6660 ACCTCATTTC GTCCTAGCAA GAGAACCCAG GAGTAGGCTC CTACGAAAGG AGCTGACATG 6720 GAAGCAATGA TAATCAATAT TTGTAGAAAT TTCTTCCCCT TGAAGTCATA CATAGAGAAG 6780 AGATAAGCTA ATAGGGTTCC TACAACTAAG GAAGTGATAG TAGCGGTAAT GGAAACCTTG 6840 AAACTGTTGA CTAGTGTCTC AGAGTAGTAG GCTTTACTAA AGAAAGTGAC AAAATTAGCT 6900 AGTGAGAATT GTCCTTCATG TATAAGTGCT TGCTTGAGCA CGGTAACGAT AGGATAAACG 6960 AGAAAGATAG GATAGGTAAG AAAGAGGAAG AAAGAGGAAA CTGTCCAAAT ATTTAGTTTT 7020 TTACGTTCCA TGGTTGACTC CTTTTATCAG GTTTTGGGAA CCATCTGCAG AAAAGATGTT 7080 TAATTTTTGC GTATTGATTC GTAGACGAAT ACGATTGCCT TTTTGTAGAT CTTCTTCAAA 7140 AGTTGATTCT TCACTAACTT GAATTTTTGA GGCAAAACCT GTCTCAATGA AATAATCCGT 7200 ATTTAGTCCA AGATAGACGC TATCTCTAAT AGTTCCTTCA ATATCTCCAG ATTCATCTTT 7260 GATAAACTCT TCGGGACGAA TGCTTACATG AATAGCTTGC TCCTCAACCT GATCAAGAGC 7320 TGGCATTCGA AGGGCATAGC CATCTGAAAA GACGATATAA GCGCCGTCGC TCCGTTTTTC 7380 AAGATTGGCA GGGATAATAT TTGTGCGTCC GATAAAGGTT GCCACAAACT CATTAGCTGG 7440 TTTATGATAG AGTTCTTTTG GTCGGCCGAT TTGTTGGATC ACCCCATCTT TCATAACAGC 7500 AATTTGGTCT GAAATAGCCA TGGCTTCTTC TTGGTCGTGG GTTACATAAA CAGTTGTAAT 7560

TCC	CACTTCG	TGTTGGATTT	CTCGGATGGC	TTGACGCATA	TCCAAGCGAA	GTTTGGCCTC	7620
CAG	АТТАСТА	AGTGGCTCGT	CCATGAGGAG	AACACTTGGA	TTAACCGCTA	AGGCGCATGC	7680
CAA	GGTGACA	CGTTGTTGTT	GTCCACCACT	GAGTTTATCG	GGCTTTCGAT	CCGCATATTG	7740
AGC	AATTTGC	ATGAGTTCAA	GATACTTGTT	GGTCTGTTGA	ATCAATTCTT	CTTTTGGAAC	7800
CTT	CTTTTGC	ATAAGACCAA	AAGCAACGTT	GTCTCGGACA	GTCAAATGTG	GGAAAATAGC	7860
GTA	GTTTTGG	AAAACCATCC	CGATATTGCG	TTTGCTGGGT	TCCATATTAT	TGATTTTTGT	7920
ATC	ATCGAAG	TAAAATTCTC	CACCTTCGAT	ACTGTTGAAA	CCTGCAATCA	TACGAAGAAG	7980
GGT	CGTTTTC	CCACATCCTG	AAGCTCCAAG	AAGGGTAAAG	AGACTTCCTT	TTGGAATTGT	8040
AAT	GTTCAAA	TTCTCAATAA	CAGGGACATC	GTGGTAGATT	TTTTTGGCGT	TAATAATTT	8100
GAT	CTCACTC	ATAGTGAACC	TCTTTTACTG	TTTAGATTGG	ATATCTGTAA	AGACTTCGTT	8160
GTA'	<b>ITTCTTA</b>	ACGATATCTG	ATTTATTCTT	GATGACATAA	TCATAATCTT	CAGTGAGTGT	8220
TTT	GATTTTG	TCAATTGGTT	TCATGTTTTC	GCTTGTTTTA	GCATTTTTAC	GAACAGGACG	8280
GTT	AGTAGTG	GTTGTACCAA	GTGTATCTTG	TACTTCTTGA	GAGATAATAA	AATCGATAAA	8340
TTT	CTTGGCA	TTTTCCATAT	TTTTAGATTT	TTTAACGATA	GCAGCACTAG	CAGGTAGGAA	8400
GAC	GGTTCCT	TCTTTTGGAT	AGACTACCTT	AATGTTAGCT	CCGTCATTTA	AGAGTTTAAC	8460
TGC'	<b>FGGATCT</b>	TCATAAGAGA	GACCAACAGC	CATTTCTCCA	TCAGCGACTA	CTTTATAGAC	8520
ACT	AGATGAA	CTTGAACCGA	TTTTACCATC	AATAAGTGTG	AAAAGATCTT	TTACATAAGA	8580
CCA	AGCCTTA	TCATCTTTGT	AACCACCTTG	AGCTTGTAGC	ATATTTGTTA	ATTGAGCAAA	8640
GGC	GCTAGAA	GAGTTTGCTG	GGTCAGCAGT	TGCGATTTTT	CCTTTTAGTT	CAGGTTTGAA	8700
AAG	ATCGTTA	TATCCTTCGA	TGTTCATGCC	TTTAGTTAAA	TCAGGGTTGA	CGATTAAAAC	8760
ACT	ACCATCT	AGTGTATAAG	GAGTAGAGTA	GCCAGTTGTG	TTTTGATATT	CTTTGATAAC	8820
ATT	ATCATTT	TCTTTTGAAG	TATAGTTTTC	AAAGAGTTCT	CCGTGGGTAG	TATATTGTGT	8880
ATA	AGAACCA	CCAAAGATAA	CATCAGCTAC	AGGAACTTCT	TTTTCTGACT	CTAGTTTTTT	8940
GAA	AAGTTCT	CCAGTACCAG	CTTGAATCAG	TTCTACTTTG	ATACCATATT	TTTCTTCAAA	9000
GGC	AGGAATA	GTTGCTCCAA	TTAAGCCCTC	TGAGTTTGGT	GAATAAACGA	CTAGCGAACC	9060
GCC	GTCTCCT	TTATCAGATG	AACTGTCATC	GGCAGATTCA	TTAGAAGAAC	AAGCAGCATA	9120
ATA	CATCCAT	TTCTTTTCA	TGATGGATAC	CTCCGTTGTG	TTATTTAAGT	TTATTTTAAA	9180
ACA	ATGTAAG	CGTTTTTAAA	ACATACAATT	СТАТТСТАТА	GTGTATTGAA	TCTATAACAG	9240
mac:	א כיתוחותים א	CUCCUNANA	አመመመርመልመላል	አመጥ አ አመውመጣ ላ	CULLE	ACACA TOTAL	9300

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. 882	
ACATCTTATT TCAATTCACT ATATTAGAGT AAAATTCTCT ACAAAAAGAA GAATAGCCTA	9360
TTTTACTATT CTTCTGAGTG ATTTCAATTC CTTTGGGGAA ATATGGAGAT ACTTTTTAAA	9420
TCCTGACAAA TGGTTGTTTC TTTTTCTAAA TCGGTGATAC TGTATCGGAG AATGCGCGTG	9480
AGGTCACAAA GGCTGCGATA GAGCTTCTAT GGAGAATTTC TTTTTGGAGA GATTTTTTAA	9540
AGGAATGAGA CATCCGCTAC CTCCTTGGAA GGTTTTTG	9578
(2) INFORMATION FOR SEQ ID NO: 128:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 13440 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	·
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 128:	
CGGGCTGTTG TGACGATTCT TATTTCTATC TGTGTTATCT TTTTGGGAAC TATTTTGGGT	60
GTTGTCTTGG CTTTTGGGCA ACGTTCAAAG TTTAAACCGC TTGTTTGGTT GGCCAACTTG	120
TACGTTTGGA TTTTCCGTGG GACACCGATG ATGGTTCAAA TTATGATTGC CTTTGCTCTT	180
ATGCATATCA ATGCTCCGAC TATTCAGATT GGAATTTTAG GTGTTGATTT TTCGCGTCTG	240
ATTCCAGGGA TTTTGATTAT CTCTATGAAT AGTGGTGCTT ATGTTTCGGA GACTGTTCGT	300
GCCGGAATCA ATGCGGTTCC AAAAGGTCAG CTAGAAGCGG CTTATTCGCT AGGGATTCGT	360
CCTAAAAATG CGATGCGTTA TGTGATTTTG CCACAAGCAG TCAAAAATAT CTTGCCAGCA	420
TTGGGGAACG AATTTATCAC CATTATCAAG GACAGCTCCC TCTTATCAGC TATTGGGGTC	480
ATGGAGTTGT GGAATGGGGC TACAACAGTT TCTACAACAA CCTATCTACC TTTAACACCA	540
CTTTTATTTG CAGCATTTTA CTACTTGATT ATGACCTCTA TTCTGACAGT AGCCTTGAAA	600
GCTTTTGAAA AACATATGGG ACAAGGAGAT AAGAAATAAT GACAGAAACC TTGATAAAAA	660
TTGAAAATTT ACATAAATCC TTTGGAAAGA ATGAAGTATT GAAGGGCATC AACCTCGAGA	720
TTAAAAGAGG AGAAGTTGTC GTTATCATCG GTCCTTCAGG GAGCGGGAAA TCTACCTTGC	780

TTCGCTCTAT GAATTTGTTG GAAGAAGCAA CCAAGGGGAA GGTTATCTTT GAGGGAGTCG

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AACAATTCAA TCTCTTTCCT AATATGACTG TGATGGAAAA TATCACCTTG TCCCCTATCA

AGACCAAAGG TGACAGTAAG GCCGTTGCAG AGAAAAGAGC TCAGGAACTT TTGGAAAAAG

TTGGTTTGCC AGATAAGGCA GACGCTTATC CACAGAGTTT GTCAGGTGGC CAGCAACAGC

GGATTGCCAT CGCGCGTGGG TTGGCTATGG AACCAGATGT TTTGCTCTTT GACGAGCCAA

840

900

960

1020

1080

CTTCAGCCCT	AGATCCTGAG	ATGGTTGGAG	AAGTTCTGGC	TGTTATGCAA	GATCTAGCCA	1200
AGTCAGGAAT	GACCATGGTT	ATCGTAACAC	ATGAGATGGG	ATTTGCCCGT	GAGGTGGCAG	1260
ATCGTGTCAT	CTTTATGGCA	GACGGTGTGG	TTGTTGAAGA	CGGAACACCT	GAGCAGATTT	1320
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CAGAGCTTTT	TCTTATAGTT	TAAAGCTATA	GGATTGCCTA	GGAAAGAAGT	GTTAGAGCTA	1500
CATTGTATTT	TTTGGTATAA	TTAAAGATAT	TTGTAAGAAA	AGAGAAGTGA	TATGACACAG	1560
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AAATTAAAGG	AAGAAACAGG	TCTAGTGCCT	GGTTTGGTAG	TGATTTTGGT	TGGGGACAAT	1680
CCAGCCAGCC	AAGTCTACGT	TCGCAACAAG	GAGAGGTCAG	CCCTTGCGGC	TGGTTTCCGT	1740
AGCGAAGTAG	TACGGGTTCC	AGAGACCATT	ACTCAAGAGG	AATTGTTAGA	CCTGATTGCT	1800
AAATACAATC	AGGATCCAGC	TTGGCATGGG	ATTTTGGTTC	AGTTGCCATT	ACCAAAACAC	1860
ATTGATGAAG	AGGCGGTTCT	ATTGGCTATT	GACCCAGAAA	AGGATGTGGA	TGGTTTCCAT	1920
CCTCTAAACA	TGGGGCGTCT	TTGGTCTGGT	CATCCAGTCA	TGATTCCTTC	GACACCGGCA	1980
GGAATTATGG	AAATGTTCCA	TGAATATGGG	ATTGACTTGG	AAGGTAAAAA	TGCAGTCGTC	2040
ATCGGTCGAT	CCAATATTGT	CGGAAAACCT	ATGGCCCAGC	TTCTTTTGGC	AAAGAATGCA	2100
ACAGTAACCT	TGACTCACTC	ACGTACTCAT	AATCTTTCCA	AGGTGGCTGC	AAAAGCAGAT	2160
ATTCTGGTTG	TTGCAATCGG	TCGTGCCAAG	TTTGTGACTG	CTGACTTTGT	CAAACCAGGT	2220
GCGGTAGTCA	TTGACGTTGG	GATGAACCGC	GATGAAAATG	GTAAGCTCTG	TGGGGATGTT	2280
GATTATGAGG	CGGTTGCCCC	ACTTGCTAGC	CACATTACGC	CAGTCCCTGG	AGGTGTCGGT	2340
CCTATGACCA	TTACTATGCT	GATGGAGCAA	ACCTATCAGG	CAGCACTTAG	GACATTGGAT	2400
AGAAAATAAG	ATAAAAATTT	TCTGAGGAAA	GTGTATTTTC	TATAGCTATA	TCTAAAATGA	2460
TAGAAATGAA	TATTAAATTT	TAGAAATAAG	TTTATAAAAG	GAGGTTTGCG	CCTCCTTTTT	2520
GTTGTATAAT	GGAGTGAGGT	GATTAGATGA	TAAAAAT	TTATAATGGG	GAATATAGTT	2580
TACAATGGGA	TGGAATATAC	TACTTAGCAC	TAATTGATTA	TCCAAATATT	CAAGAGTGGG	2640
AATTAGAAAA	AATTGCTAAA	TTTATAGCTT	ACGAAAAACT	TCATAAACGT	CAAACAAGTA	2700
TTGAGTGTGC	TGATTCTTGT	TTAAAAAAAG	AAATTTTAGA	TTACATCTGT	CAGCATCCCT	2760
TTCTGCCACC	ATTTACTCCT	ACAGATAAAA	GAGTAGCCTC	GACTTATGAC	CTACATAAGA	2820
GGTTAGTGAC	TTCAGACTAC	TGTAGTCATA	CTACGACTAT	AGATGCAGCG	ATTTCTATTT	2880

			884			
TTAAAACTGG	TCGTCTTTTA	TCTGCTGTGA	AAGCCTTTGG	GCGAGATGCT	GAGGAGTTGG	2940
TTTTGGATAG	TCGAAATGCT	GCATCTGATC	CGATAGATTA	TTTTGACTAT	GTCATGTTAG	3000
GGTGGTCAAA	TACAAGTTCT	GGTTATCGAT	TGGCGATGGA	GCGTTTATTA	GGTCGAGCTC	3060
CTTCAGAGAA	AGAATTACAA	GACAAGTTTA	TTCCTGGAGT	AAGTTTTCAT	TTTATCTATA	3120
CAGATTTGAT	TAAAGTTCCT	GGTTATATTT	TTGATGGTTA	CCATGCTGTA	AAAATTAAGG	3180
ACATGCTTAA	TTTATTAAGT	GAGTTGTATA	TTTGCATTAT	TCCAACTCAT	AATAAGAGCC	3240
AATTTGAAAA	TATTATTCCA	ACCAAAATAC	AAGATAGGGT	GTATTATCTT	GACTATGCTG	3300
GAGAAGACTT	AGAAGAGTGG	ACTAAGAAAG	TCTATCAAGT	TGTTTTAAAA	CAATCAGATA	3360
AAGGATAGTT	GAGGAAAAA	CGATGAAAGT	GATTGATCAA	ACCTTACTAG	AAAAAGTCAT	3420
TATTGAACGT	TCTTGTACAA	GTCATAAAGG	AGACTACGGT	CGTCTGCTGT	TGCTTGGTGG	3480
GACTTATCCT	TATGGTGGTG	CCATCATCAT	GGCTGCTTTA	GCAGCTGTAA	AAAGCGGTGC	3540
AGGATTGGTA	ACCGTTGGAA	CGGACAGGGA	AAATATCCCT	GCTCTACACA	GCCATTTGCC	3600
TGAGGCTATG	GCCTTTTCTC	TGCAAGATCA	GTAATTGTTA	CAAGAGCAAT	TGGAGAAGGC	3660
AGAAGTTGTC	TTGCTGGGGC	CTGGTTTACG	AGACGATACG	TTTGGAGAAA	ATCTTGTAAA	3720
ACAGGTCTTT	GCTAGCTTAA	AAAAGAATCA	GATTTTGATT	GTAGATGGAG	GGGCCTTAAC	. 3780
CATCCTTGCT	AGGACAAGTT	TGTTGTTTCC	ATCTAACCAG	CTTATCTTAA	CTCCCCACCA	3840
AAAAGAATGG	GAAAAACTGT	CTGGTATTGC	TATTGAAAAG	CAAAACGAAG	GTACAACATC	3900
TAGTGCCCTG	ACTTCTTTCC	CTCAAGGAAC	AATTTTGGTA	GAGAAAGGTC	CAGCTACTCG	3960
TATTTGGCAA	GTTGGCCAGT	CTGATTATTA	CCAGTTAAAG	GTTGGCGGTC	CCTATCAGGC	4020
GACTGGTGGT	ATGGGTGATA	CACTGGCTGG	AATGATTGCA	GGATTTGCAG	GCCAATTTCG	4080
ACAGGCCAGT	CTCTACGAAC	GTGTGGCAGT	AGCAACCCAT	CTTCATTCAG	CCATAGCCCA	4140
AGAACTATCT	CAAGAAAATT	ATGTGGTCTT	GCCGACGGAA	ATTAGTAATT	GTCTTCCTAA	4200
AGTAATGAAA	AGATATGTCT	AAAATAGTTA	GACAAAAAAT	GTTGATAATT	TGTATCATTA	4260
TTCTTAATTC	ACAAAAAACG	AACGTTTAGT	ATTCTTCTTG	CTAAGAAACT	AAATTTGTTC	4320
GTTTTTTTAC	TCTTGTAAAT	CTATTTTTGT	TAGAGTTGAT	TTGGTTTACA	TCCGTACTTA	4380
AATTGATTTG	TTAGAGCTCT	ACTTTTATTA	AAAAAATTCA	ATTTCAAGGA	TAAATAAGCA	4440
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ATTTATCAAG	GATGGGATGG	TTGTAGGGCT	AGGAACAGGT	TCTACTGCCT	ATTATTTTGT	4620
CGAAGAAATC	GGTCGTCGAA	TCAAGGAAGA	AGGCTTGCAG	ATTACAGCTG	TGACGACTTC	4680

PAG'	TGTGACC	AGTAAACAGG	CTGAAGGGCT	CAATATCCCG	CTCAAGTCTA	TTGACCAAGT	4740
AGA	CTTTGTC	GATGTGACAG	TCGACGGGGC	GGATGAAGTG	GATAGTCAGT	TTAATGGAAT	4800
CAA	AGGCGGT	GGTGGTGCCC	TTCTCATGGA	AAAGGTGGTC	GCAACACCAT	CAAAAGAATA	4860
CAT'	TTGGGTG	GTGGATGAAA	GCAAGCTGGT	CGAAAAACTA	GGTGCTTTTA	AATTGCCAGT	4920
AGA	AGTGGTT	CAGTATGGTG	CAGAGCAGGT	CTTTCGTCAT	TTTGAACGAG	CTGGCTACAA	4980
ACC	AAGTTTC	CGTGAAAAAG	ACGGCCAACG	TTTTGTGACC	GATATGCAGA	ATTTTATCAT	5040
rga(	CCTCGCC	TTGGATGTCA	TTGAAAATCC	AATTGCTTTT	GGACAAGAAT	TGGACCATGT	5100
CGT"	TGGTGTT	GTGGAGCATG	GTTTATTCAA	CCAAATGGTG	GATAAGGTAA	TCGTTGCTGG	5160
ACG	AGATGGA	GTTCAGATTT	CAACTTCAAA	AAAAGGAAAA	TAGAAGGGGG	CATAAGATGT	5220
CTA	aa'tttaa	TCGTATTCAT	TTGGTGGTAC	TGGATTCTGT	AGGAATCGGT	GCAGCACCAG	5280
ATG	СТААТАА	CTTTGTCAAT	GCAGGGGTTC	CAGATGGAGC	TTCTGACACA	CTGGGACACA	5340
PPT(	САААААС	AGTTGGTTTG	AATGTCCCAA	ACATGGCTAA	AATAGGTCTT	GGAAATATTC	5400
CTC	GTGAAAC	TCCTCTTAAG	ACTGTAGCAG	CTGAAAGCAA	TCCAACTGGA	TATGCAACAA	5460
\AT'	TAGAGGA	AGTATCTCTT	GGTAAGGATA	CTATGACTGG	ACACTGGGAA	ATCATGGGAC	5520
rca.	ACATTAC	TGAGCCTTTC	GATACTTTCT	GGAACGGATT	CCCAGAAGAA	ATCCTGACAA	5580
AAA'	TCGAAGA	ÄTTCTCAGGA	CGCAAGGTTA	TTCGTGAAGC	CAACAAACCT	TATTCAGGAA	5640
CGG	CTGTTAT	CTATGATTTT	GGACCACGTC	AGATGGAAAC	TGGAGAGTTG	АТТАТСТАТА	5700
CTT	CAGCTGA	CCCTGTTTTG	CAGATTGCTG	CCCACGAAGA	CATTATTCCT	TTGGATGAAT	5760
rgt/	ACCGTAT	CTGTGAATAC	GCTCGTTCGA	TTACCCTTGA	GCGTCCTGCC	CTTCTTGGTC	5820
GCA!	TCATTGC	TCGCCCTTAT	GTAGGTGAAC	CAGGTAACTT	CACTCGTACG	GCAAACCGTC	5880
GTG/	ACTTGGC	TGTATCTCCA	TTTTTCCCAA	CTGTTTTGGA	TAAATTGAAT	GAGGCTGGTA	.5940
rcg	ATACTTA	TGCTGTGGGT	AAAATCAACG	ATATCTTTAA	CGGTGCTGGT	ATCAACCATG	6000
ACA!	TGGGTCA	CAACAAGTCA	AATAGTCATG	GAATTGATAC	ACTATTGAAG	ACTATGGGAC	6060
rtg	CTGAGTT	TGAAAAAGGA	TTCTCATTCA	CAAACCTAGT	TGACTTTGAT	GCCCTTTACG	6120
GCC/	ATCGTCG	TAATGCTCAC	GGTTACCGTG	ATTGCTTGCA	TGAGTTTGAT	GAACGCTTAC	6180
TG	AAATTAT	CGCAGCTATG	AGAGAGAATG	ACCTTCTCTT	GATTACTGCG	GACCATGGAA	6240
ATG	ACCCAAC	GTATGCAGGA	ACGGATCACA	CTCGGGAATA	TATTCCATTG	TTGGCCTATA	6300
CCC	CTGCCTT	TAAAGGAAAT	GGTCTCATTC	CAGTAGGACA	TTTTGCAGAT	ATTTCAGCGA	6360
TG	TTGCCGA	ТААСТТТССТ	GTGGAAACTG	СТАТСАТТСС	GGAAAGTTTC	ттасатават	6420

886 TGGTATAAGA TGACGCGCTA TGCTTTGCTG GTGAGAGGTA TCAATGTTGG TGGTAAGAAT 6480 AAGGTCGTCA TGGCGGAGCT TCGTCAAGAA TTGACAAACT TGGGACTGGA AAAGGTTGAG 6540 AGCTACATCA ATAGTGGCAA TATTTTCTTT ACTTCGATAG ATTCCAAAGC CCAATTGGTT 6600 GAAAAGCTAG AGACTTTCTT TGCAGTCCAT TATCCATTTA TTCAGAGCTT TTCTTTACTG 6660 AGTCTAGAGG ACTTTGAGGC GGAACTTGAA AATCTACCAG CTTGGTGGAG CAGAGACTTG 6720 GCACGAAAAG ATTTTCTCTT TTACACTGAG GGTTTGGATG TGGACCAAGT CATCGCGACA 6780 GTTGAAAGTT TAGAGCTGAA AGATGAAGTG CTTTATTTTG GAAAACTTGG GATTTTCTGG 6840 GGGAAATTTT CTGAAGAATC CTATTCTAAG ACTGCCTATC ATAAGTACTT GCTGAAGGTG 6900 CCTTTCTACC GCCACATTAC TATTCGTAAT GCTAAAACCT TTGACAAAAT TGGTCAAATG 6960 CTAAAAAAAT AATAAAGGAG ACACACAATG ACATTTTTAA ACAAAATCCA TGAAACTGCT 7020 ACTITICATION AAGAAAAGGG AATTGCAGCC CCTGAGTTCG GTCTAATCCT TGGATCAGGA 7080 CTTGGAGAAT TGGCAGAAGA AATCGAAAAT CCAGTTGTAG TAGACTATGC TGAGATTCCA 7140 AACTGGGGCC GTTCAACAGT AGTCGGTCAT GCTGGTAAAT TGGTATATGG TGAACTGGCA 7200 GGTCGCAAGG TCTTGGCTCT TCAAGGGCGT TTCCATTTCT ATGAAGGGAA TCCTCTGGAA 7260 GTGGTGACTT TCCCAGTTCG TGTGATGAAA GTTCTTGGAT GTGAAGGTGT TATTGTAACC 7320 AATGCAGCTG GCGGTATCGG ATTTGGTCCT GGTACCTTGA TGGCTATCTC AGACCATATC 7380 AACATGACGG GGCAAAATCC ATTGATGGGT GAAAACTTGG ATGACTTTGG CCCACGTTTC 7440 CCAGATATGT CTAGGGCCTA CACACCAGAA TACCGTGCCA CTGCCCATGA AGTGGCTAAA 7500 AAACTTAATA TCAAGCTTGA TGAAGGTGTC TATATCGGAG TTACTGGTCC GACTTATGAA 7560 ACACCAGCAG AAATTCGTTC CTATAAGACA CTGGGAGCAG ATGCAGTTGG TATGTCTACG 7620 GTTCCTGAAG TTATCGTGGC AGCCCACTCT GGCTTGAAAG TTCTGGGAAT TTCATGTATC 7680 ACTAACTTTG CGGCCGGTTT CCAAGAAGAA CTCAATCACG AAGAAGTTGT AGAAGTGACT 7740 GAACGTGTTA AAGGTGATTT CAAAGGCTTG CTTAAAGCGA TTCTTGCTGA ATTGTAAGAA 7800 AAAAGATTTA AAAGGGGGAG TGCCTCTGTT TTTTCAGGAT TGACTGCCTA TCCGGATTAA 7860 AGAAGAACA GAGGAATACT ATGAGCTTCT TCCTGCTCTT ATAACTGAAA GAAGCGGAAG 7920 AATAGGTATG TCTGATCTGA TAGCCAGCAT TGTGAAAGAC AAGATTCTAG GATACTAGCA 7980 TTAGCTTCCT AGCCAAGCAG ACTAGTATGA TAAGGAGAGA TGAGAATGAA TTGACTTTCT 8040 GAATTTCTCA GTCTTATCAT ATATAGCACA ATGAGATTTC GCTTGAGTCT GCTTGTAAAT 8100 AAACGAAAAG AAAGATAAGA AATAATGAAA ATTGGTCAAC GAATTATGCG CTTTGGCATA 8160 AAAAATTAAG TATCGGAGTT GTATCTGTTG TAGTCGGCTT TGATTTCTAG CTCCAGCTGG 8220

A	ATTTCAGCC	AATGAAGTAA	AGCAAGATGT	AACATCTGAA	GTGGTAATAG	GTGTGCTAGA	8280
Т	TCTAAGGAG	GAATTGAAAG	AGTCAGAAAA	TGATGCTCCA	AAACTAGAAA	CTCCTCTTAG	8340
A	GAGGAGCCA	AGACTAGCTC	CTCAAACGCT	TCCGGAAGCA	AGTGAAGTTC	TTGAAAACAA	8400
A	AGGGAAGAG	TCAAAAGTAG	AGATAACATA	ACCAGCTCAA	GCGGATGATA	TCCGCAAGGT	8460
T	GTTGGGGAA	TTAGCCAAGG	ATATAAGTAT	TACTAAGTTG	TATATGACAG	GTCATTCTCT	8520
Т	GGATGTTAC	CTAGCTCAGA	TTGCAGCGGT	TGAAGCTTAC	CAAAAATATC	CTGATTTTTA	8580
Т	AACCATGTA	TTGAGGAAAG	TGACAACTTT	CAGTGCTCCT	AAAGTGATTA	CTTCCAGAAC	8640
Т	GTTTGGAAT	GCTAAGAATG	GTTTCTGGGA	TCTTCCTTTC	GAAAGTCGTA	AATTAGCTGT	8700
т	agtggaaaa	ATTAAGCATT	ATGTGGTTGA	TAATGACAAT	GTTGTGACTC	CCTTGATTCA	8760
T	AATAATCGT	GATATTGTTA	CATTTACAGG	TAATTCACGC	TTTAAACACC	GTTCTCGTGG	8820
C	TATTTTGAA	AGTCCAATGA	ATGATATTCC	TAACTTTAAT	ATTGGTAAAC	AAGCTACCTT	8880
G	GATAAACAT	GGTTATCGTG	ATCCGAAATT	GGATAAAGTG	CGATTCTTTA	AGAAACAGGC	8940
т	CTGCCTCGA	TCTTCTAGTC	AACCAAGCGC	TGAACCAATG	GAAAATATTG	CCTCAGGAAA	9000
A	CAGGTTACT	CAAAGTTCGA	CAGCTTTCGG	AGGAGATGCT	AGAAGAGCTG	TGGATGGCAA	9060
A	GTCGATGGT	AACTATGGTC	ACAATTCTGT	CACTCATACA	AACTTCCAAT	CTAAGCCTTG	9120
G	TGGCAAGTA	GATTTGGCTA	AAGAAGAAAC	CATTCGCCAA	ATCAATATTT	ACAACCGAAC	9180
A	GACACTGCC	CAGGATAGAT	TGGCAAACTT	TGATGTCATT	CTTTTAGACA	GTTCTGGTAA	9240
A	Gaaattgag	TGAAAACGTA	TAACATCTCC	TAAAGATGTG	TCAGCACAAA	TTACGATTAA	9300
С	САТААААА	GCGCGCTATG	TTCGGATTGA	GCTAGAAGGC	TATAATGCCC	TCAGTCTTGC	9360
A	Gaagttgaa	GTTTTCTGCT	TTATAGCTAC	GAATGCTGAA	ACGGCGACAC	AAGTTTCTAA	9420
G	CCAGTTCAA	CCAATCAGTC	AGACTCCTGT	GAAGGATAAA	ACATTGACAA	TTCAACACAG	9480
т	GGAGCTTAC	ATTGCCCGCT	ACTCCATAAC	TTGGGAAGAA	GTTCCAGTAG	ATAAAGATGG	9540
A	AACCAAGTT	GTTCGTAGTC	ATTCTTGGGA	AGGAAGCGGT	CGCAACCAGA	CTGCAGGTTT	9600
Т	GTCCTCAAC	CTCCCAATCA	AAGAAAATAT	GAGAAATCTG	CGAGTTAAGA	TTGAGAAAAA	9660
G	ACGGGCCTA	CTATGGAATA	GATGGCAAAC	AATCTATGAA	AACAGACCAA	TTTTAGCTCA	9720
A	CCCCACCGT	AAAATTACCC	ATTGGGGTAC	GACATTGAAT	TCCAAGGTGA	GTGACGATGA	9780
T	GTCTTGTAA	TCTGATGGTA	GAATGACAGT	TAGTTTGTCT	AGTTTATAAG	AAAGTACTAC	9840
С	TGAGCTTGA	ATAGGACTCA	GGTAGCTCTC	TATGAAAGAA	СААААТТААТ	ACTCAATGAA	9900
A	ATCAAAGAG	CAAACTAAGA	AACTAGCCGC	AGGTTGCTCA	AAGCACTGCT	TTGAGGTTGT	9960

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AGA	<b>TAAGACT</b>	GACGAAGTCA	GTCACATATA	888 TAATCCAAGG	CGACGTTGAC	GTGGTTTGAA	10020
GAG	ATTTTCG	AAGAGTATAA	ACAGAAAGGT	AGAGCGCGTG	TTCTAATTTG	AACACGAGTA	10080
GAA	VAACTTTT.	СТАААААСАА	AAACGAAAGG	ATGGGTAAAC	TGTATTCGCT	GAACTGAATA	10140
CGG	GCGACTC	TCCTCTAAAT	CAAAATTAAG	AAAGGAATTG	ACCCCACCCT	AAAAGTAGTG	10200
GGA	AAAAGAT	AGTTGATCTA	GCGAGCATCG	CTCACTGCGC	CCAACTCCTA	TTTTCCCTTC	10260
GCI	TTTTGAT	GGGTTTGGTA	TCTTTCTCAA	TATAAAATAT	AAAATAAAGA	AAGGTAGAGC	10320
GTG	STGTTTTG	ATTTGAACAC	GAĞCGGAAAA	CTCGGAAAAT	AGATAATCTG	ACTGAAAAAT	10380
CAC	GATTTCT	CGTCAGGTTC	CTAATTTTCA	GTCGTTTTCT	TCTCGCTCTT	TGTATCATAA	10440
ATT	PATGTCTA	TCCATATTGC	TGCTCAGCAG	GGTGAAATTG	CTGATAAAAT	TCTTCTTCCT	10500
GGC	GATCCTC	TTCGTGCTAA	GTTTATTGCG	GAGAATTTCC	TTGATGATGC	TGTTTGTTTT	10560
AAC	GAAGTGC	GTAACATGTT	TGGTTACACT	GGTACTTACA	AGGGTCACTG	TGTATCTGTC	10620
ATC	GGAACTG	GGATGGGAAT	GCCATCTATT	TCGATTTATG	CGCGTGAGTT	AATCGTAGAC	10680
TAC	GGTGTGA	AGAAATTGAT	TCGTGTGGGA	ACTGCAGGTT	CTTTGAATGA	AGAGGTTCAT	10740
GTT	CGTGAAT	TAGTTTTGGC	GCAGGCGGCT	GCAACCAACT	CAAACATCGT	TCGTAATGAC	10800
TGC	SCCACAGT	ACGATTTTCC	ACAAATTGCT	AGCTTTGATT	TGCTTGATAA	AGCCTACCAT	10860
ATC	GCCAAAA	AACTTGGTAT	GACTACTCAC	GTTGGGAACG	TTTTGTCATC	TGATGTCTTT	10920
TAC	TCAAATT	ACTTTGAAAA	GAATATCGAG	CTTGGTAAAT	GGGGAGTCAA	GGCTGTGGAA	10980
ATC	GAAGCAG	CAGCTCTTTA	CTATCTTGCT	GCCCAATACC	ATGTTGATGC	GCTAGCTATC	11040
ATC	SACCATCT	CTGATAGCTT	GGTCAATCCA	GACGAAGACA	CAACTGCAGA	AGAACGTCAA	11100
AAT	PACCTTCA	CTGATATGAT	GAAGGTTGGT	TTGGAAACCT	TGATTGCAGA	ATAATTATAG	11160
CCF	<b>NAAAAGGG</b>	GCTCTTTGTC	AACTGTAGTG	GGTTGAAAAA	AAGCTAAGCT	TGAGAAAGGA	11220
CAA	<b>ATTTCGT</b>	CCTTTCTTTT	TTGATATTCA	GGGCGATAAA	AATCCGTTTT	TTGAAGTTTT	11280
CAA	AGTTCCG	AAAACCAAAG	GCATTGCGCT	TGATAAGTTT	GATGAGATTA	TTGGTCGCTT	11340
CCA	GTTTGGC	ATTAGAATAG	TGTAGTTGAA	GGGCGTTGAC	GATTTTCTCT	TTGTTCTTTA	11400
GAA	\AGGTTTT	AAAGACAGTC	TGAAAAAGAG	GATGAACCTG	CTTCAGATTG	TCCTCAATGA	11460
GTC	CGAAAAA	TTTCTCAGGG	TCTTTGTTCT	GAAAGTGAAA	AAGTAAGAGT	TGATAGATCT	11520
GAT	PAGTGGTG	TTTCAAGTCT	TCTGAATAGC	TTAAAATCTT	GTCAAGAATT	TCTTTATTTG	11580
TT	AGTGCAT	GCGAAAAGTA	GGGCGATAAA	AACGTTTATC	GCTsArTTTA	CGACTATCCT	11640
GTT	rggatgag	TTTCCAGTAA	CGCTTGATAG	CCTTGTATTC	ATGAGATTTT	CGTTCAAACT	11700
GAT	TCATAAT	TTGAACACGA	AAACGACTCA	TGGCACGGCT	GAGATGTTGG	ATAATATGGA	11760

AACGATCTAG	AACGATTTTA	GCACACGGAA	AAAGCTGTTT	AGCCAAGTCA	TAGTAAGGAC	11820
TAAACATATC	CATCGTAATG	ATTTTCACTT	GACAACGAAC	GGCTCTATCG	TAGCGAAGAA	11880
AGTGATTTCG	GATGACAGCT	TGTGTTCTGC	CTTCAAGAAC	AGTGATAATA	TTAAGATTAT	11940
CAAAATCTTG	CGCAATGAAA	CTCATCTTTC	CCTTAGTGAA	GGCATACTCA	TCCCAAGACA	12000
TAATCTTTGG	AAGCCGAGAA	AAATCATGCT	CAAAGTGAAA	GTCATTGAGC	TTGCGAATGA	12060
CAGTTGAAGT	TGAAATGGCC	AGCTGATGGG	CAATATCAGT	CATAGAAATT	TTTTCAATTA	12120
ACTTTTGAGC	AATTTTTTGG	TTGATGATAC	GAGGGATTTG	GTGATTTTTC	TTTACCAGGG	12180
GAGTCTCAGC	AACCATCATT	TTTGAASAGT	GATAGCACTT	GAAACGGCGT	TTTCTAAGGA	12240
GAATTCTAGA	AGGCATACCA	GTTGTTTCGA	GGTAAGGGAT	CTTAGACGGT	TTTTGAAAGT	12300
CATTTTTCTT	CATTAGACTT	CCACAATCAG	GGCAAGATGG	AGCCTCATAA	TCCAGCTTAG	12360
CGATAATTTC	TTTGTGGGTA	TCCATATTGA	TGATATCTAG	AATCTTGATG	TTTGGGTCTT	12420
TAATATCGAG	CAGTTTTGTG	ATAAAATGTA	ATTGTTCCAT	ATGATTCTTT	CTAATGAGTT	12480
GTTTTGTCGC	TTTTCATTAT	AGGTCATATG	GGACTTTTTT	TCTACACAAA	AATAGGCTCC	12540
ATAATATCTA	TAGTGGATTT	ACCCACTACA	AATATTATAG	AGCCCAAAAA	GGAAGCCCTT	12600
TATGAATTGT	AGGACTTCCT	TTTCTTATCC	AGAAATTGAT	CTAGCTCTCT	CTGATTTCGA	12660
AGAATAGTGA	CTTTATGTGA	ATATTCTTGG	CAAAGTTTTT	GGTAATTTTC	TTTTTGAGTT	12720
TTGCGGACGC	CCATCCCAAA	GAATCCATCT	GATAAACTCC	CACTCAAAGC	GTTCAGGGCA	12780
ATCTACCGCC	ATACTTTCTC	TGACTTTTCC	ACGGTATTTA	AGATAACGCT	TAAAGGCTCT	12840
AAAGAGACAG	GTCAATGGCG	AAAAATTGAG	AAAGATGATT	TGGTCAGCTT	CTTGCATTCG	12900
TTCTTGGTAG	TAGCACCAAG	AATAATTACC	ATCGATGACC	CAAGCTTTAT	GCTTGGTGAG	12960
AAAGTTTTTT	ATCTCGGTTA	ACATCCATTC	GCAGTCACTG	TCTTGCCAAC	CAGGTTGAAA	13020
TTGGAGTGTG	TCCATGTGCA	GTTTTGGAAT	GGAGTAGTAG	TTAGATAACT	TTTCTGCTAT	13080
AGTTGACTTA	CCAGAACCAG	AATATCCGAT	AATTGCGATT	TTCATTTTCT	ACCTTTTCCT	13140
ATTTGGAGAC	AAAAAAACAG	CCTCTATGGA	CTGTTTCTTA	TTTAACAAGT	TTAGCTGAAA	13200
GACGAGCTTT	ATCGCGGCTT	GCTTTGTTTT	TGTGAATCAA	ACCTTTAGTT	TCTGCTTTAT	13260
CGATAGCTGA	GCTAGCAGCA	CGGAAAAGTT	CTTCAGATGG	GTTTGCTTCG	AAAGCTTTTA	13320
TAGCAGTACG	CATAGCTGAT	TTTTGAGCTG	AGTTCTTTTC	GATTCGTCTA	ACGTTCAATT	13380
CAGCGCGTTT	GATAGCTGAT	TTAATGTTTG	CCAATGGTCT	TACCTCCATA	ТТТАСТААСТ	13440
(2) INFORM	ב פסק אחות	O TO NO. 12	9.			

<sup>(2)</sup> INFORMATION FOR SEQ ID NO: 129:

# (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 8512 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 129:

60	AAGAAATTG	AAAGGGTTTC	CAAAAGTAGG	ACTAGTCTAT	AAAACTAGAT	CCTTTTTTCA
120	AAAAGACTGG	CCTAGTATTG	TTAGCTAATC	CATAGAACTA	TTTTGAAAAT	ATTGGAAATT
180	ATAGACTTCC	CAAGTTGGAC	TTTCTCTGGT	TTGTAAACTA	TCAGGTCATC	ATAGCTTCTT
240	TATCGGAAAA	CCCTTTCTTC	TAAAAATCCT	GGAAAATTTG	ATCTAAAGTT	ACCAGACAGG
300	TAAAATAGGT	ACTTCCCTTG	TCTTGCTCCA	AGCTACTTGT	TTATCCAAGA	TCAACAGTTT
360	CGACATTCTT	TAAAGCGAAT	TCATCATCTG	ACGCCAATCC	CTCTTGCTAA	TCATAGATCA
420	AAAGTCTGGA	TGTTTTTAGG	TCATGAACTC	ATCAAATACT	GGCCAAGTAT	TTAAATAGTT
480	CCAACCATAC	AAGCGTGAAC	CCATGTGCAA	TAAATCGGCT	CCTCTGTCAG	TGACAAACCA
540	TTGATTTAAA	AGTGCAAGCC	TTTGAAAGAT	ATCCTTTTCT	AACCCCTTGT	TGACTTGAGA
- 600	CTGGATTTCT	CAAACAACCA	CCCAAATGAT	AGAAGGATTT	GAATTTCTGG	AGGACATTAC
660	ATACATGGTC	GTAAATCTTG	ATTTTTCTTA	TTCTTCTGCT	AATTTGGTTT	TCCTGGTTAT
720	CAATATTGAA	TTAAATGACT	AAAGGCAGTC	AACTGTTCAA	CATTTCTAGC	AATACCTCTA
780	CCAGTTCTAC	ACTATCAATA	GACGTAAATA	GATATAAAAT	AATACAATCT	PTCTCAATTA
840	CTACAACTAA	TTGAAAATAG	AACGACATTT	CACGACCTTC	AATTTAACAT	AGTAAGTTCA
900	TTTCTATTCC	CTAAAAAATT	AAACATCATT	ACAAGCCCAT	ATGACGCTTA	GACAAATAGA
960	GACAAGAATT	AACTGTGTCA	TAATCTGGTC	CTATAGGAGA	CAACTCAGCA	CCTACTCTCC
1020	ATGGCTGACT	ACCGATAATC	AAATATCAGC	TTGTCTGTTG	ACGGAGTGGT	GGATGGTATC
1080	GCTCCAGTTT	CCAGTCTTCA	GGAGATTGAG	CCTGATTTGA	CTTGCTACCA	CAAGTGGTGT
1140	GAGTAAGTGT	TAGTCCTGCT	TCGAGATAAC	TAACCAGCAG	TAGATGAAGG	CAGAATGTTT
1200	GCATCATCGT	AGTCAGAGTT	GGCGCATCCA	TAGTGAGCTT	GCCCATATAG	AACTATACAA
1260	CTGTTGAGCT	CTTCATAATG	TCAAAACTTC	CAGAAATCCG	AGCATCTCCC	CAATTTCAAT
1320	TGGAAGGCGG	CACCTTACGC	TCAATGTATA	CCTTCTTCAA	AAAGGTCTCC	rgcttgctcc
1380	TGAGCCAGAG	TGTCAAGCGA	AGTAGGTGTC	AAGTTATGGA	GTGGGTGATA	CTTCCAAGAG
1440	AGTAGCAATT	GTAATCACTG	GGTTCTCCAA	TCATTAGACT	TTGACGTGGG	CGAAGCGTTT
1500	AAGTAACTTT	ATGGGCATTG	AGGTCGACAT	TCAACATAGT	TGACGGTGCT	CATTGAAGGT

GATGATTGTC	TGAAAAGATG	AATTGACCAG	AATGCCCGAT	TTCATGAATC	AAGGTATAGA	1560
CATCGCTCAA	ACGGCCTGTC	CAGCTCATGA	GTACATAAGG	GTGTACGCGA	TATGGGTCCG	1620
CCGCATAACC	ACCGGAATCC	TTGCCACTGT	TAGCAGCAAA	GTCCACCCAG	CGCTCTTCTT	1680
GGTAACGAGC	AACTTCCTGA	CAATATTCTT	GCCCCAAAGG	TTCTACCGAC	TTCATGACCA	1740
AATCATAGGC	ATCGTCAATA	GTCACTTCAG	GATTCAGGGC	GCTGTCCAAG	TCCAATTTCC	1800
AGTCTGCAAA	GGTCATCTTT	TCAAGACCAT	TTACCTTGGC	AACATGCTTG	AGGTATCTCT	1860
GAGCGACTGG	TGCAAAGTCC	TTCATGATGA	GGTCAATCTG	GCGGTCAAAC	ATGACACGGT	1920
CCACTTCTTG	TTCAGCTAGA	AGATAGTCAA	AGACAGAGTC	GTATCCCTTC	ATATCAGCCA	1980
AGAGTTTTTC	AGACTTGACC	TGAGCCAGAT	AGGCTGCTGC	AGCCGTATTT	TGGTGCTTAC	2040
GAAGTCCCTC	TGAGAAGGAA	CGGAAGGATT	TCTCACGAAC	CTCAGCATCC	TCATGGTTTT	2100
GGTAGAAATT	CTCATAGGTC	ACAAAGCTGT	TTTTGTAGGT	CTTGCCATGG	GCTTCAAAGT	2160
CAGCCATTTC	AAAATCCCCA	GCTCGCATCT	TAGTATAAAT	GTCCTGCGGA	CTGTAGAAAA	2220
CTTCACCGAG	ATTTGTCAAG	GCCTTCTCCA	CATCTGCCCC	TAAGTAGTGG	GCTTTTTTGA	2280
TTTTAGCCTG	ACGAATGGCA	GCTGTTAAAT	GTGGCAATTT	ACCCAAACGG	TCCAAGACTT	2340
CCTCATCTGC	TGCCACCAAG	GCATCGTCAA	AGAAGGTCAA	GGCTACGCTG	GCATCTGTTT	2400
CAAATTCCAT	CCCAGCTTGG	GCAATATTGG	CAAATTCGTC	ATTGCTATAG	TCCGTCGTCT	2460
GAGGCATAAA	ACCATAGTTG	CCAATATGGC	TCATCTGAAT	GTAGATCTGT	TCCAATTCCG	2520
CAAAGGCCTT	CTCGAAATCC	TCAAAAGTGT	GAAGATTGCC	CTTGTAATCA	CGGCTAAACT	2580
GGTTGATGTC	TTCGCGAGCT	TTCTCGATTG	CACGCAAGAA	ATCCTCACGG	TCTTGGTATA	2640
GGGCTGTTAA	GTCCCAGAGT	TCCTTCTCTG	GAAATTCTGA	ACGCTGTTTT	TGTTCCATTT	2700
TCTTCCTCTT	ATTTCTCTAA	TTCTACTAAA	ACACTAAGGG	CTGATAAAGC	GTAAAGCGGT	2760
GCTGTTTCTG	CTCGCAAAAT	ACGAGGACCT	AGGCCTGCCA	AAACGGCTCC	TTTAGCTTCA	2820
AAACTTTCGA	TTTCTGCAGG	TGAGAGACCG	CCTTCTGGAC	CAAAGATAAA	GAGCAGTTTG	2880
GCTCCTGTTT	CAAGACCAGT	GACTGCTTGC	AGAAGCGCAG	CGGCTTCTCC	TTCTTTAGCT	2940
GATTCTTCAT	AGGCTACTAT	GATAGAGTCA	AACTGGTCCA	GCTGAGCTAG	AAAATCTGCT	3000
TTTTTCTCGA	AAAGTTTAAT	ACTTGGTACA	ATATTACGCT	TGCTTTGCTC	GGCTGCTCCA	3060
AGGGCAATTT	TTTCTAGTTT	TTCAACTTTT	TTACCCAATT	TCTTGCCATC	CCACTTGGCA	3120
ACTGACCAGT	CTGCAGGAAA	GGCCCAGATT	TGGCTAGCCC	CCAGTTCGGT	TACTTTTTGA	3180
GCGATGAACT	CCAGCTTGTC	TCCCTTGGGA	AATCCAGATG	CGATGGTCAC	TTGGACTGGT	3240

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AGTTCCACAT	TGTCATTTAA	TTCTTGGACC	AACTCAAACT	GACGATTTTC	CATATCCAGC	3300
ACGCGCGCCA	AGCGCTTGAT	GCCATCATCA	AAGACTAAGG	TAACCTCATC	CTCTTCTTTC	3360
AAGCGCATAA	CCTGAAACAT	ATGCTTACTG	GTTTCCTTGT	CCTCGATAGT	GACAGGAGAG	3420
ATAGCACTGC	CTTTTACAAA	ATACTGCTGC	ATGCTAGCCT	CCAATCACAC	CAGAGATATC	3480
CTTGGTTTTC	TTAAAGACAC	AGGTATTCCA	TTCCCCTTGA	ACCATGTGAG	TTTCGAGGAA	3540
AAATCCAGCT	GACTCAGCCG	ACTGGCGCAC	CATGTCCAAC	TTGTCCTTGA	TAATGCCACT	3600
CATGATCAGG	TAGCCTTCAT	CCTTTACCAA	GCGATAAGCA	TCGTCTATTA	GATGAATGAG	3660
GATATCCGCC	AAGATATTAG	CCACAATCAC	ATCTGCCTCA	ATTTCCACAC	CCTTAAGCAA	3720
ATCTCCAGCC	GCTACATGGA	TATTTTCCAT	GCCAGGGTTG	AGCTCAATAT	TTTCCTGAGC	3780
CACACGAACC	GCCACATCAT	CCAGGTCATA	GGCGAAAATT	TCTTTAGCCC	CCAGAAGCGA	3840
GCTGGCAATA	GAGAGAACCC	CTGAACCAGT	CCCCACATCT	AGCACCGTTT	CGCCACCACG	3900
AAGAACCTGT	TCCAAGGCAA	AAAGGCTCAT	CTTGGTAGTT	GGGTGGGTTC	CAGTACCAAA	3960
AGCCATGCCA	GGATCCAGCT	TGATAATCAT	TTCCCCCGCA	GTCGCCTCAT	AGTCTGTCCA	4020
AGAGGGAACG	ATGGTCAAAT	CATGAGTGAT	ACGAGCAGGT	TCATAGTATT	TCTTCCAGTT	4080
GTCTGCCCAG	TCTTCCTCAG	CCAAGGCAGT	CGTACCTATT	TTTAACTCTC	CCAAATCCAT	4140
AAAATCTGTC	AATTCTGCTA	GACGAGCCTG	CAAATCCGCC	TCAACCACTG	TCACATCCAC	4200
CGTGTCAGGG	TAGTAGGCTG	TCACTACGAT	TTCTTCTTGC	TGCTCCACCT	CTGGGAAAAT	4260
CTCTCCAAAG	CGGTCCACAT	TTCCCACATA	GTCCATACTG	TCTTCGATTG	CGACTCCTTG	4320
CGCTCCCAGC	TCAATCAAGA	GATTGGAAAC	CAACTCCTCT	CCCTCACGCT	TCACTGTAAC	4380
TTTTAACTCT	TGCCATGTTT	CCATTATTAA	TACCAAGCCC	GTAAAACACA	AAACCAAAAT	4440
AGGAAATTCT	CTGAAGACGC	TTGTGTCTAA	GAGAAGTTTA	TCTTTTTGGC	ACAGTGTTTA	4500
GGGCGGGTTC	AGTTTAGAAA	TGTAACTGAA	CCATCCTTTC	TAATCACTTA	СТТТТАААТА	4560
ATCTTTTAAT	CTCTCTTGCA	ACTGAGGCAC	AACTTGACTG	GAACTAAGAA	ATTCCTCAAC	4620
ATTCATCAGC	TGATAGCCCT	GTCCTTCATC	TCCGAAGATG	ATATTGTCAA	ATTGTTCTTG	4680
TCTTAGCTGA	CCAACCATAA	AGACCGATTT	CTTGCCTTTA	AAAATTACGC	TAGGATAAAT	4740
CTTGCTCCAA	AGCAGACAGT	CTTCATCTAA	ATGAATTCCC	AGTTCCTCAT	AAACTTCACG	4800
CCGAGCGCAT	TCAAAAGGGC	TTTCGTCCCC	TTCACGGCCA	CCACCTGGCA	GTTCCCACAT	4860
ATTGGCCCAG	GGAATACTTG	CCTTATCATC	GCGTAAGATA	GTCAAAAGCT	TATCCCCACA	4920
AAACAAAGCA	ATCTTGCAAC	CTGTGAAATC	AGAAATTTCT	AGTTCCATCT	TCAGTTCCTT	4980
CTAACATTTC	CTTTTCCAGC	TCGGCTAACC	AGTTTTCATA	ATATCTTTTC	TCATCCCTCA	5040

ACATTCGACT	ACTATCCATT	TTCTGTCTAG	CAATCTTGAG	AGCCTTACGA	GTTCGATCTA	5100
CATCTTTCTT	CACCTTTAAT	TGATACCAGG	CTTGTATCAC	TTGAAGATTG	GACAGTTTGA	5160
BAGACAGAAA	CGATTTGACC	TGTCGAATAC	TAGCATATTG	CTCCGCTTGC	TCAAAATCTC	5220
CTTCCAACAA	GGCGATATGA	AGCAGGGATA	GTTGGGCAAC	TGTCTGCATC	ATCGGAGTAG	5280
TTGTCCTCTC	AAGTAATGCT	TGAAACTGCT	GTTTAGCTAC	TTCTTCCTTC	CCTTCCAAAA	5340
<b>rggaaacttc</b>	ACCTTGCATA	CCTAATACAC	CATCCGCAAA	ACTCCCTCGT	GCATCCTCAG	5400
GAACTGCTTG	AACAAAGTCT	TTCAAATCAT	ATTCTTGAGG	AGCTAGCAAG	GTCTGGGCAG	5460
ATGTCTCAA	TACCAGGTAG	GCGTATTTGG	TATTTTCAGG	GTGTTGTAGT	AATTCCCAAA	5520
TTTTTGCTCC	ATCGGTGATG	TCGACTGGCA	AAATGTTATT	TAGGAAGAAA	GATAAATTAA	5580
GAAAAATCCA	AGTCCCTGCA	AAATACCAGC	TTCTTGTCAA	AAATCCAAAC	AATATCGCCA	5640
<b>ЧТААТ</b> АТСАА	GCCGAGATGA	ACCATCAAGC	CTCCTGAAAG	CATCAGGATG	ATTCTTTGAT	5700
CGCTTTCATC	CTCTTTTAAA	CCAATGTATT	GAGCACCAAC	ATTTTTCAGA	ATGGCTGTTC	5760
<b>PACTAAGATG</b>	AAACCTGCCT	GACTTTTTGG	ТСААААТААА	ATGTCCTAAT	CCAAAAGCCA	5820
CCAGCCGATA	GCCTGTCAAG	TAGCCACAAA	AAGCATGACC	CAGCTCATGA	AGAATAAAGA	5880
TAAATACAT	GCTTAGAAGA	GCGAAGGCAT	AACCAAAAGT	AAAGGCTAAA	ACTGCGGAAT	5940
ACCCCAACTC	TGCAAATGCG	ATTGTTCCAC	AAGCAAAAGC	TAGCATAATA	AAGACAACAG	6000
CTAGCACATA	AACCAAATAA	GTCCCAATTT	TCTTCATAAC	ACCTCCAACC	AACTCCTAGT	6060
ATCTTGGATA	AGGATAAAAT	TCTCCCTTTT	CCAAGCCAAT	TTTTCCTTCT	TCAAAGACTT	6120
CTTGGTTCCA	TTCCATGACA	AATTCCTCTG	CTTCTGGGTC	TTCCAAAAAG	TCCATGAGGA	6180
CATCTAGCCC	AACCTCAGCA	GTATCTTTAA	GGAAAAGCGC	AAAATAAGCT	AAAAATTCAC	6240
GGAAAATCC	TTTTTTAGGC	AGGTAAGGAA	TAACAGTCAA	ATAGTCTTCC	TCATTGACTG	6300
PTGACTTGGC	AGGATTGTAG	AAAAGGACCG	CTTCCTCAAA	AAGAATGTCA	TCTGATGAAA	6360
CCTCTCCGTC	TTCATCCACC	ATCTCCACAC	CGCAGCATTT	TGCGCTTCCA	ATAGAAAACT	6420
CACTTCTACC	GCATGGTTGC	GTTTGTCCCA	GCTAATCTCA	AAGTCAAAGG	GAAAGTTCTT	6480
GTCCAACTCT	TCCTCTAAAA	TATCTAAAAA	TCCGTATGTT	GCCATTTTGT	CCTCTTTCTA	6540
<b>PGCGACTCTT</b>	TAATCGCCCC	GATTGCTCGG	AAATATGCTA	AAATAGATAC	TACCATCTTA	6600
CCACAAAATT	ATTTTATGTC	CTAATTATAC	CATATTACCT	CATTTAAACC	CTTGGTATCA	6660
GTGATTTTCT	TAAAAGTCTG	ATTTCTTCAT	TTCTCATAAA	AATCAATATA	AAAAGCCCTC	6720
GAAAGGGCTA	ATAAATCTAT	AAAATCAATA	GGCGAGTAAC	TAGCACAAGT	GGACGTGCTT	6780

894 TTTTATTGAC TATTACCACG ATACCACGCT TAATCTTAGG CTTGAACTTT CTTATCTGCA 6840 ATAGCGTCTG TCAAAGTCTG AGAAAAGTTA AGCCCCATTT CTCGTCCCAA CTTATCTGCC 6900 CATTTTGGTA TGGTCAAAGT CTTTTTAATG GGTTCCTGAC TTCCTAGGTA TTCTGATACA 6960 TCAACAGATA CCATAGAAAT AAAAGATTTA TCAAGGTCAT AGGTTGACAC GAAATCTTCA 7020 TCATCTTTAA AAGGATCATT ATCAATTAAA GACAAGCTAT TGATATCTGA TGGCTGAGGT 7080 AACTCTCCAT CACTCTCTAT CAAATCTGCA ACAGTTATCC CTAGCCACTC CGACCCCATA 7140 GCCAAAGCCT CAGAAATCCC CTCTCCTTGT GTAGCTGAGT ATTCAAAATC TGGGAAATGG 7200 ACAAAATAAG TCGCTTCTGT TCCGTCTGTG TCGTCATAAT AAAATAAAGC TGGATACGTA 7260 ACTAACATTT CACTACCTCC ATATCAAAAA GCAGGGACTG AATTTTACAA CCCAGCTTGC 7320 TTTCTTATCC CTCTTTCAGT GTACTTATTC AGCTCACCAT GAAGGATTGT GATAGGTCTT 7380 TCCCCTTGCT TTTCCATTTT AATATGGGAG CCTTTACCGC CTCTAGTCTT TATCCAACCA 7440 TGGGCCGTAA GGAGTTTAAC CATCTCTTTT TGTGTCATAG GCATAGCGCT TTTACCTCCT 7500 GACAACACCA TTATAACACG TGTTACACGT ATTGTAAAGG AGTGATACTT ATTATTCTAT 7560 TATACATAAA AGCCCCTAGA TGTGGTTCTA AGGGAAGCCA ATTTATTCAT ACCTATTTTT 7620 CTAATGAGTA GTAAAAACTG CTTCTTTATC GAGCAATTCA TCATCTGTAT AGTCAATTGT 7680 AAAAGTATCT CGATCTAAGA CAGATTGAGG CGGAGTTGAA TGAATCATAG GAACACTGCG 7740 TACTCTATAT TTTTTATCTC CAATTTTTAC AAACTGATAC TCTTCGAAAA TCAAATTCAA 7800 ACCACGTCAA CGTCGCCTTA CCGTACTCAA GTACAGCCTG CGGCTAGTTT CCTAGTTTGC 7860 TCTTTGATTT TCATTGAGTA TGATTAACTC TCAAGTCTTC GAAATCAGGA TTTTCAACAG 7920 TTATTACAAG GAGGCGATTT ACTACTTCAA AAACATCAAT TATTCTATTT TTCATATTTT 7980 TTCAACCCAT TATTAGAATG AACTTCTTGG TAAGCAAAAT CAAGTTTAGA TTTAATGTTT 8040 TCGTACAAAT CTAAAATCTC TTTTGGAGTA TCTTCCCGGA AGAAAAGTTT TCTTTTCCCT 8100 GAAATAACTT GATCACTAAG AATCCAATGA CGAATTTGTT TTGTAAAAAT CAAAATTTCC 8160 TGACTTGGTA GTTCCATCAT TTCCATTGCT TATCACCTCT CTTTTCATTA TAGTTCATAC 8220 AATGACATTC AGCAATATTA TTTCTCAAGT CAGCACTTCC ACTTCTTTAG GCTCAACTAT 8280 CCTATTTGA GCTTTAAGGA AAATCAAATC TCTCATGCTG ATACCTCTCC TCATTAAATT 8340 AAATAGTAAA AAAGATTCTA TCTCACTCCC TGATTATTAC AAAACCATTG AAATATCACA 8400 ACTAATAGGC TAGAATGGAC ATAGTAAGAT ATAGTAGATG AGTCATTCTA CTCAAATCCA 8460 CGTTAGAAAG GACTGCTATG CCAGACAATC TCGCCGTTCG CATGCGCCCn GG 8512

<sup>(2)</sup> INFORMATION FOR SEQ ID NO: 130:

895

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 2869 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 130:

CTCGTTTCAA	GGTTGAGTCT	CTTGCAAATC	TTGTTCGCGT	TCTTCCTTTT	GCCAAGGCAT	60
CTCTCCCATG	GTTGGTGCcA	GCCATTGTTG	GAATCTTGCT	CTCATTGGTT	CTACCAAACA	120
AGCAAGAAAG	CGATGTTTTT	GAAATGGAAT	AATCACTTAA	ATCACTTTTG	TAGCCAAGTC	180
TACAGGAGTG	ATTKTCTTTT	TTTATCCGAT	GATAAATGTG	TTATAATAGG	TAGCGAAAGA	240
GGTGAAGAAA	TGAATCAAAC	AGTAGAATAT	ATCAAAGAAC	TGACAGCCAT	TGCGtCGCCA	300
ACAGGCTTTA	CTCGTGAGAT	TGCGGACTAT	TTAGTCAAGA	CTCTAGAAGG	TTTTGGTTAC	360
CAGCCGGTTC	GCACATCCAA	GGGCGGTGTC	AATGTAACTA	TTAAAGGTCA	AAATGATGAG	420
CAACATCGCT	ATGTGACTGC	CCATGTAGAT	ACGCTTGGTG	CTATTGTCCG	TGCTGTCAAA	480
CCAGACGGCC	GTCTCAAAAT	GGACCGTATC	GGTGGCTTTC	CTTGGAACAT	GATTGAAGGA	540
GAAAACTGTA	CCATTCATGT	GGCTAGCACA	GGTGAAAAAG	TATCAGGAAC	CATCCTCATC	600
CACCAAACTT	CTTGCCATGT	CTATAAGGAT	GCAGGAACTG	CAGAACGCAC	GCAAGACAAT	660
ATGGAAGTGC	GTTTGGACGC	CAAAGTAACT	agtgaaaaag	AAACTCGTGC	TCTTGGCATT	720
GAGGTCGGTG	ATTTTATCAG	TTTTGACCCA	CGAACTGTCG	TGACAGAGAC	AGGTTTTATC	780
AAGTCTCGCC	ATTTGGATGA	CAAGGTCAGT	GCGGCGATTT	TGCTCAATCT	CCTTCGCATT	840
TATAAGGAAG	AGAAGATTGA	ATTGCCCGTA	ACAACTCATT	TTGCTTTTTC	AGTCTTTGAA	900
GAAGTGGGAC	ACGGTGCAAA	CTCTAACATT	CCTGCTCAGG	TAGTAGAATA	TCTGGCTGTG	960
GATATGGGAG	CCATGGGAGA	TGACCAGCAA	ACAGACGAAT	ATACAGTGTC	TATCTGTGTC	1020
AAGGATGCTT	CTGGACCTTA	TCACTATGAC	TTCCGTCAAC	ATTTGGTGGC	TTTGGCGAAA	1080
GAGCAAGATA	TTCCATTTAA	GCTGGATATC	TATCCATTTT	ATGGTTCGGA	CGCTTCAGCG	1140
GCTATGTCTG	CAGGGGCAGA	AGTCAAACAC	GCCCTTCTCG	GTGCTGGTAT	AGAGTCTAGC	1200
CATTCCTATG	AGCGTACCCA	TATTGACTCG	GTGATCGCAA	CAGAACGAAT	GGTCGATGCT	1260
TATCTTAAGA	GCACGTTGGT	GGACTAATAT	GTGCCTTATT	TGTCAGAGAA	TTGACCTCAT	1320
CAAGAAGGAA	GAAAATCCTT	ACTTTGTCAA	AGAGTTGGAA	ACAGGCTATC	TTGTGGTTGG	1380
AGACCACCAG	TATTTTGAAG	GCTATAGTCT	CTTTCTAGCC	AAGGAGCATG	TCAGCGAATT	1440

ייי מייט מייב ייי מייט מייב	באדעת	A	CAAGACTCCG	896	CNAAMCACMM	MACMOCA ACA	1500
GCAGTT	GCC	AAGGCCTTTG	CTGCTGAGAA	AATGAATATC	GAACTGCTAG	GAAATGGCGA	1560
rgctcat	CTT	CATTGGCATC	TGTTTCCACG	ACGGACAGGT	GATATGAATG	GTCATGGTCT	1620
CAAGGGT	CGT	GGACCAGTCT	GGTGGGTTCC	CTTTGAAGAA	ATGACAGCAG	AAACCTGCCA	1680
AGCAAAA	CCG	GATGAGATTA	AAAGATTAGT	CAAACGTTTA	TCGTCAGAAG	TAGATAAACT	1740
ATTAGAA	АТА	AAGGAGTAGA	AATGAAGAAA	ÀGATACCTAG	TCTTGACAGC	TTTGCTAGCC	1800
PTGAGTC	TAG	CAGCTTGTTC	ACAAGAAAAA	ACAAAAAATG	AAGATGGAGA	AACTAAGACA	1860
GAACAGA	CAG	CCAAAGCTGA	TGGAACAGTC	GGTAGTAAGT	CTCAAGGAGC	TGCCCAGAAG	1920
AAAGCAG.	AAG	ТССТСААТАА	AGGTGATTAC	TACAGCATTC	ААСССАААТА	CCATCAAATC	1980
ATCGTAG	CCA	ACAAACACTA	TCCATTGTCT	AAAGACTATA	ATCCAGGGGA	AAATCCAACA	2040
GCCAAGG	CAG	AGTTGGTCAA	ACTCATCAAA	GCGATGCAAG	AGGCAGGTTT	CCCTATTAGT	2100
SATCATT.	ACA	GTGGTTTTAG	AAGTTATGAA	ACTCAGACCA	AGCTCTATCA	AGATTATGTC	2160
AACCAAG.	ATG	GAAAGGCAGC	AGCTGACCGT	TACTCTGCCC	GTCCTGGCTA	TAGCGAĂCAC	2220
CAGACAG	GCT	TGGCCTTTGA	TGTGATTGGG	ACTGATGGTG	ATTTGGTGAC	AGAAGAAAA	2280
GCAGCCC.	AAT	GGCTCTTGGA	TCATGCAGCT	GATTATGGCT	TTGTTGTCCG	ТТАТСТСААА	2340
GCAAGG.	AAA	AGGAAACAGG	CTATATGGCT	GAAGAATGGC	ACCTGCGTTA	TGTAGGAAAA	2400
ልሞጋጋሪሪድ	בעע	ልልልጥጥርርጥርር	AAGTGGTCTC	እር <b>ጥጥጥር</b> ር እ እር	ስ <b>ስ</b> ሞአር ጥ አጥር ር	COMPACT A CCC	2460
-							
GGAGACT.	ACG	TCGATTAATA	CTCTTCGAAA	ATCTCTTCAA	ACCACGTCAG	CGTCGCCTTA	2520
CTACTG.	ACT	GCGTCGGTTC	TATTCACAAC	CTCAAAACAG	TGTTTTGAGT	CGATTCGTCA	2580
TTTTAT	CTG	CAACCTCAAA	GCTGTACTTT	GAGCAstGCG	GCTAGCTTCC	TAGTTTGCTC	2640
lttgatt	TTC	ATTGAGTACA	AAAAGTAAAC	TTTTCTCTTG	CAATTCCAGA	TAAATAGTGT	2700
ATAATGG.	ATG	GGTATGTGAA	AAACATACTT	GTGGGAGGTA	AAAATCTCTA	ATTACCGCCA	2760
AAACCAC	AAA	GGAGGATTTA	AAAATGGCTA	AAAAAGTCGA	AAAACTTGTA	AAATTGCAAA	2820
necentera	mee	<b># 10 10 10 10 10 10 10 10 10 10 10 10 10 </b>	CCAGCTCCAC	CCCMMCC3 CC	<b>постопис</b>		2869
بافادنانان	فافاند	INMMOCIACA	CCAGCITCAC	COCTTOUNCE	I GUTUTUG		2009

# (2) INFORMATION FOR SEQ ID NO: 131:

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 6186 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double
   (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 131:

60	ÁTAGGCAGCT	CTTTGCCTTC	TTAGCCTCTA	CAGTAACTTT	TATAGGAGTC	CTGAATCCCT
120	CGACAAATCT	CAGTGCTCCA	GCAAGTTCTT	Argcactgaa	TAAAAAAAGA	<b>PCAACATCAT</b>
180	GCTTCTTTTA	TCTCATTCTT	TAATACCAGC	GTTCATTAAC	TATACTGTTT	AGTGGGTAAC
240	TTAAAACCGA	CTCATCTTCA	AAGCACGAAT	CGAGGGAGAA	ACGATAACTA	GTTCTTGCTT
300	TACTGCTCAA	AAGACTAGGA	GACGACGCAA	ATAATAATTG	CTTGGCATCA	PTTGCATACG
360	TTTTGAAAAA	AATATTCAAT	TCTCTACATC	ACCGAAATAC	CAATTCCGAT	TCAAATGAAG
420	AGGATGTGTT	GGTCAAGGAA	TACCATTTTC	ATGTCATCAG	agttgaaatg	PTTTTGAACG
480	GGAACTTATG	TTCCACAAAG	TAATATTGTG	GGACTGGTCA	TCTTGTTAAA	GCAATTCTTT
540	GAAATAGTGT	CTCGGTGATA	TGATGTACAG	CCTTACGACA	CAGGCCTTAG	ГТТТТСТААС
600	AAAATAAAGC	АТТАТАСААА	TGCTACTTCT	ATCTATACTT	TTCTCTTCTT	ATCATGCTT
660	GCTTTTTGCG	AGAAAAATAG	TATTTTTCA	AAAAAAAGCC	GGATTTTTAG	GCTTGACTAG
720	AACGATATAT	GATGGTTTTA	CACTCTTAAC	TTGGTTAATT	ACAATTGGAT	<b>AACGATTGAC</b>
780	TTTCAGATAC	TCCTACGACT	TCCTTTCACT	AAAACATCTT	atgtaaatta	ATTTTTATAT
840	AAGAAAGAAG	GGAAGGCATG	AAAAAGAGGA	ATAGAGGGCA	AGAAGTTTTC	AGATAGCCAA
900	GGTATCATCT	CAAAAAGCCA	TTGGCTGGAT	AACAGGATCC	AAATCATAAT	GTCTCTGGCA
960	CAAAACTCCC	CAAAACCAAT	AAGAATTGGT	GAAAAGAGTA	GAATTTGATG	CCACAAAGA
1020	ATAAAGAGAC	GACTTTTTCG	AGAGCCAGGA	TAAGACTACT	TCATCACAGG	CAAGTCCAA
1080	TGTCACTAGA	AACTTGGCAG	AAGACATAGA	CCTATTGACA	TTTTCACAAT	<b>VAAAAGTCCT</b>
1140	CAGACCAGCT	CGAAATGGTG	TTGACCACTG	AAAGAGATTC	GAACCAAATG	CTACTAGCT
1200	CAGATAATTC	AAGGATTGGT	ACCTGACTAA	CATCTGTAAG	GAAAATCAGG	GCTGACGAAC
1260	ATTCGTTAAG	GATAGACTCG	TCTGGTTTTA	TTGAATGGTT	GAAAATTGTA	TCAAGATAT
1320	CAGAAGGATG	GATAAATGGT	ATCCAAGCCA	AGGATAGAAA	GAATCTCCAT	PTTAGCCACT
1380	CATCAAAATC	ATTTAGTTTT	CAAAAGATCA	CATAGAGCCC	GGAGAAAGAG	GAGAGGGAGA
1440	CTACTTCTTC	GGCAGGCCAG	CGGTGCGATT	CCACATGTGT	AGGCTAGAAA	CACTCCGCA
1500	TCCCAGCCCG	CCATTGTCAA	CGTTGGAATG	TCACCAAGAG	AAACCTGTCG	GCCTTAGTA
1560	AACCTAAGTG	TCACGTTCCA	GATTAACTCT	CCCCAACCAT	AAATAATTGT	ATATCAGTC
1620	GCTTCACTCG	ATATAAACCG	TGGTTTTCCG	TGATGGCATT	TTGTCCATAA	TCAACCGCC
1680	CGCGTTCCGT	GGCAAAAGAC	GCCAGCACCT	TAATCAGTGA	TCAAGCAGCG	GTCGCTACT
1740	TAGCAAGAGT	CCCTTTTGAA	AAAATGGGCA	TGGTTCCGAT	AGGTCAGGAT	GGGATGTTG

TGCTGTGGCA	AATTTTTCAT	AGTCGACTTG	CCAATCCAGA	CCAACTACCA	CGTAGGCAGG	1800
TTTTTCCTTG	TCTTCCACAT	AACCAGCCGC	CTTGATGGCT	TCCTTGAGTC	CTGCTTCTCC	1860
GACGACATAG	ACGGTCTTTT	CAAGCCCCAA	ATCATTCATA	TAGTCGATGG	TTGCCAAAGT	1920
CGCTGTGTAG	ACAGTCGATA	GGGGCGTATC	GATATTAAAA	TTCTGAGCCA	ACATCTCCTT	1980
AACACTCTCT	GGAGTGCGGG	TTGTATTGTT	GGTTACAAAG	AGATAGGGAA	TGTCCCGCTT	2040
TTGCAATTCA	TGAACAAAAG	TCTCTCCAGC	AGGGATTCGG	TCTTTCCCCT	TATAAATGGT	2100
TCCGTCTAAA	TCAATTAAAT	AGCCTTTATA	TTTCATCTAT	TTCTCCCTAA	GCCTTTTTTA	2160
TTTCTTGCCA	AGTAATGATT	GCTTGGGCAT	TGATAACCCC	ATCACTTGTA	ATTTCATGCT	2220
TGCTTTCCAG	TCCAGTCCGT	TCAACAGCCG	ATGTAATCAC	CCCACCTGGT	CGAACTTCCT	2280
TGACATACTT	GAGGTTGATT	TTCTTGGGAA	TATAGTGGGT	CAAAAAATCC	GCTCCCATGA	2340
CCTCAAAAAT	CCAGTCCAAG	TATTTACTGT	TATTGACATG	ACCATTCATA	TCCAAGTCGT	2400
AAAAACGAAC	ATGGTAATCC	TTGCTGATCG	GTTCTTCCAA	GGACTCATAC	TTCGGTCCAC	2460
GGATAAGTTT	TTTATCAAAA	TCAGACTGGT	AAGGAGCCAC	AATCTCAGGT	TCAACAACAT	2520
GGACTTTTCG	ACTGTCGCGG	TCCATGAGAA	CAAAGGTCGC	CATCATGTGG	ATGAGCTCCT	2580
GCTCCGCTTC	ATTATAAATA	GTAAAGCGAC	GGTAGCAAAA	AAGTCGATTG	TAGCTCAAGG	2640
CTTCCGTTTC	GATGGTAATT	TCTTCCGCAA	AACGAGGCAA	ACGAACCACC	TCAATATCAT	2700
ATTCTACGAT	AATCCAGACC	AGATTATATT	CTTCCAAAAT	GGCCTTATCA	CTAACTCCCA	2760
GTTCAATCGA	CTGCATCCCT	GAAACTTGCA	GTGACAGCAA	AATCACATCT	GGAAGTTTGA	2820
TATGACCGTT	CATATCAGCC	ATATCAAAAG	GAATTTTCAT	TTTCATTTGA	TAAGTTAAGC	2880
CCATGATCCT	ACTCCAAAAT	AAATCGTTCT	GCTACAGTAT	CTCCCAAAAA	GAGACCTCTC	2940
TTTGTCATGC	GAACGTGGTC	ACCCTCAATC	TGCATGAGGC	CTTGTTGAAC	CAAATCTCTG	3000
ACAATTTCTC	CATAAAGTCC	AGCAAAAGAC	TGTCCAAATT	TTTCCTCAAA	TCGCGCCATG	3060
GAAACCCCGG	ATTTCTTGCG	GAGTCCCAAG	AACATTTCTT	CTTCCATTTG	CTCCTTTTGA	3120
CTCAGGTGAT	CTTCTGTAAT	ACAAGCATTG	CCTTCCTCAA	CCGCACTGAG	ATAATGACGA	3180
ATGGGACCAT	GATTTTTATA	GCGTACTCCA	TTGACATAAC	CAGATGCCCC	TGCACCAATA	3240
CCATAGTATT	CAGCATTGTC	CCAGTACATG	AGATTATGAC	GACTTTCAAA	ACCGGGTTTG	3300
GAGAAATTAG	AAATCTCATA	ATGCTCAAAA	CCCGCTCGCT	CCAGCTCTGC	AATGATGTAC	3360
TCAAACATCT	CCGCTTCTAG	TTCCTCCTTA	GGCAGAGGCA	ATTTCCCACG	TCGCATCCGG	3420
TTCATAAAGA	CCGTATGGTT	TTCTAAAATC	AAACTATACA	AACTCATGTG	GGGAATATCC	3480
AATCCAATGG	CTTTAGCCAC	ATTTTCCTTT	ACTTGCTCCA	TGGTCTGACC	AGGCAGAGCA	3540

ТАААТСАААТ	CAATGGAGAT	ATTGTCAAAA	CCAGCCAGTT	TCAGGCGATC	GATATTTTCA	3600
TAAATATCCT	TCTCCAAATG	ACTGCGCCCA	ATCTTTTCA	ACATCTTATC	ATCAAAGGTC	3660
TGGACACCTA	GCGAAACACG	ATTGACAGCC	GAATTTTTCA	AAACAGCTAT	CTTATCCGCA	3720
TCCAAATCGC	CTGGATTGGC	TTCAATGGTC	AACTCTTCCA	AGACAGACAA	ATCCAAGTTT	3780
TTAGTCAAGC	CATTCAGTAA	CACCTCCAGT	TGCGGAGCCG	ACAGGGCTGT	CGgTGTTCCA	3840
CCACCGATAT	AAAGGGTTGA	CAACTTTTCA	ATATCATAAG	AACGAAACTC	TTCCAGCAGA	3900
TGCTCTAAAT	AGCTGTCGAC	TGGCTGATTT	TTGATGAAGA	CCTTTGAAAA	ATCACAATAA	3960
TAACAAATCT	GGGTACAAAA	TGGGATGTGC	ACATAGGCTG	ACGTTGGTTT	TTTCTGCATA	4020
GTAATTATTA	TACCACAAAG	ACTAGATTCC	AGATAAAAAT	CACCATCCCC	AGATACATAG	4080
TCCGTCCGGA	GATGGTGATG	GTTTATTCTT	CTGTTATATC	AATCACAATC	TCTTCTGAGT	4140
CATCAAGAGC	TTCGGCTTTT	TCTTGCCATT	GCTCCTTGAG	ATTATTTAAT	TGATTTTTTG	4200
ATGCTTCTGT	CGCTTGAAAA	GCATAGGATT	TAGTTTGAGC	AAGTATACTG	TCCACAGTGA	4260
TTTCACCTGA	CTCAACCTGT	TCTTTTGTTT	TCAGAACAAA	ATCTGTAGCC	TGCTCCTTAA	4320
CTTCTGTCAG	TTTTTCACAG	ACTTGCTCCT	TGGCATACTC	CGGATCTTCT	CTCAAATCAT	4380
CTAGAAAATC	TTGAGCCTGA	CTGCAAACTT	GTTTGCCCTT	ATCACTTGTT	AAAAACAAGG	4440
CAAGAGCTGC	ACCTGAAACG	GTTCCTAAAA	GGATTGAGGA	TAATTTACCC	ATAAGGATTC	4500
TCCTTTTTTA	TTTTTTGAAA	AATTTACTTG	CAAGACGAAG	AGCTGACAGA	CTTGCACCAG	4560
TCTTGAGTGT	TTTTGAACCA	GCTGATGAAG	CTTTCTTGCT	CAAGACACGC	GCATGGTCAT	4620
TGAGGTCTGA	AACAGATAGA	GATAAATCTG	CAACAGCACT	GAAGAGTGGA	TCAATCGTAG	4680
CCACCTTGAC	ATTGATATCA	TCTGCCAAGA	CATTGACCTT	AGCCAACAAC	TCATTGGTGT	4740
GATGCAAGGT	CACATCCACA	TCTGAAGTCA	AGGTTTTAAT	CGTCTTTTCT	GTTTCATCGA	4800
TGACACGACC	AAGCTTTTGT	ACAGTAATGA	TCAGATAGAC	CAAAAAGACA	ATCAAAGCTA	4860
GGGCAACAAG	AATATATGCA	ACTTCTAACA	TTTAGTTTTC	CTCCTCTGTA	ATATAGTAAG	4920
GGGCCTTCTT	TCGATTTTGA	TAAATAACGA	TCATTATACC	GAGACCGATA	AGGACAACTG	4980
ACAGCCATTG	GGACACTCGA	AAGCCGAAGA	ACATGAGACT	ATCTGTTCGC	ATACCTTCGA	5040
TAACCATACG	ACCGAAACCA	TACCAAATCA	AGTAAAAGGC	CGTGATATGA	CCTCGTCTGA	5100
GACTCTTCCA	TTTCCGTCTA	AAAATCAGAA	TCAAGGCAAA	GCCAAGCAGA	TTCCATAGAG	5160
ACTCATAAAG	GAAAGTCGGT	TGACGGTAGC	TCCCCTCAAT	ATACATCTGG	TCACGGATAA	5220
AGCCAGGTAG	ATAATCCAGA	TTATCCACTG	TTGCACCATA	AGCTTCTTGG	TTAAAGAAAT	5280

TACCCCAACG	CCCCAAACTT	TGAGCAATCA	900 TAACGCTAGG	CGCCGCAATA	<b>ТСТА</b> GААААТ	5340		
CCCAAGTATT	GATGAGTTTA	CGGTCAGCAA	AGATATAGAG	CACAAGAGCC	CCAGTTATCA	5400		
	•	CCACCATTCC				5460		
		CCACCATTCC	MINIOCOLINA	Wicicicci	AAATTCTGAC	3400		
TATAGTAATC	AAATCGGAAA	ATAACATAGT	AGAGACGAGC	TCCTAAAATA	GCCAAGGGAA	5520		
AGGCTACTAA	GATAAAATCT	AAAATATCGT	CTGGTATGAT	CTTCTTTCTA	GGTGCTTCTT	5580		
TCATGGTCAA	ATAAACCGCA	AGAATCAAGC	CTGTCACAAT	ACATAAGGCA	TACCAACGAA	5640		
TGGCTAGGGG	TCCTAGTTGA	ATAGCAATTG	GATCAAGCAT	TTTGCACCTC	ATTTCGAGCG	5700		
ATTAGACTTG	TCAGTCGTTC	GTCGAACAAA	CGGGTCGCAT	CAAAGCCCAT	TTCCTTGGCA	5760		
CGATAATTCA	TGGCAGCTGC	CTCAATCACA	ACAGAGATAT	TACGACCTGT	TTTAACTGGA	5820		
ATACGAATAC	GAGGAATGtA	CGCCAGAAAC	TTCAAGTTCC	TCTGCATTAT	TTCCAAGACG	5880		
ATCAAAGGTC	TTATGCGTAT	CGTAATTTTC	CAAATAGACA	GCAAGCTGAA	CCTGTGAAGA	5940		
ATCCTTGACA	GCACTCGCAC	CGTAGAGACT	CATAACATCG	ATAATACCAA	CCCCACGAAT	6000		
TTCAATCAAG	TGTTTCAAAA	TTTCAGCTGG	TTCACCCCAG	AGAGTAATCT	CATCCTTGGC	6060		
AAAGATATCG	ACACGGTCAT	CGGCTACCAA	ACGGTGACCA	CGTTTGACAA	GCTCAAGACC	6120		
TGTCTCGCTC	TTACCAATTC	CACTATCTCC	CTGAATCAAG	ACGCCCATCC	САТАААТАТС	6180		
CATCAA						6186		
(2) INFORMA	ATION FOR SE	Q ID NO: 13	32:					
(i) SEQUENCE CHARACTERISTICS:								

- (A) LENGTH: 9541 base pairs
  (B) TYPE: nucleic acid
  (C) STRANDEDNESS: double
  (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 132:

GAAAAT	CACA	ACCCTTTTTG	CAAAATTTTT	GAGATTATTT	TCACAAACTT	GATTTTTCAA	60
AGTATA	CTCA	ATAAAAATTA	AAAAAATCCA	CTACGTCAAG	GCGAGGCTAA	TGTGGTTTGA	120
AGAAAT	TTTC	GAAGAGCGTG	AATGAGTATC	ATCTATAGTA	АААТАААА	ACTGAACAAT	180
TTGGTT	GGGG	ACAGCCAAAC	CAATTTCTCA	CAATGTTTCA	GAAACAAGGG	TGTGCTATTC	240
CAATTT	CAGC	CTACTATAAC	TGTCATAGAT	TGCTGAAACA	AAGTCTAGGT	AAAAGTCTTC	300
ATAATA	AAAA	GACCTCCTAT	CAAGTGTTCA	AAAACTTTGA	TAGGAGGTCT	TGTTTTGTGA	360
AAATAT	TTAT	CAAATTTTCT	ATACAAGTGA	GCTGTTAGCC	AGGTTCTTTC	TATTCTTTCA	420
ATTTCA	ATGA	ATGGATTTTT	TACTAATACT	CATAACTGGG	AATTTGTCTG	TGTAAAAATA	480

540	TTTAAAACAT	ACTAATATCA	AGACAGCTAG	AAAACACTCA	TGGTATTTAT	GCGAGATAGA
600	TTTTCAAATT	ATTTCCTGCA	ACATAGCTAA	TTGGTTACCA	TGAGCGACTG	TATCTTCTTT
660	TGAACTTCAT	TTCTTTGCCG	CCAAGAGGTG	TTCACAACCA	TGATTTAGCA	GATAGGGTTC
720	TAAATTTCAT	GACATGATGG	AATGCACAAA	TCAATCGCAG	GCCGCTATGT	AGATAAGGTA
780	TGACGGATAA	TCGGATGACT	TTGTCTTCAA	GCACCAGTTT	GTAAGAAAAG	CATAGCTAGA
840	ACACTGTCAG	CACTTGGTTC	AGTTCCAGTT	TCATTAATCA	GTCTTGACGC	ACTCAATACT
900	CCATTTTCAC	GGTCAACTCA	TATCATCATG	GCACGCTCTC	GCTATTCATC	GAGCATTATA
960	GCCATCCCCT	TTCCATAAAG	CTTGACCGAT	CGACCAAATT	CAGTTTGGTA	CAGTCGCAAC
1020	TCTGAACTTT	CATGATTTGC	CGACCTTGCG	GTGGCAGTTT	ATTCATGGCT	GCATGAGCAG
1080	GCTTCTACAT	ATTGTCATGG	GAAGATTGTA	AATAAATCGT	AAGGGTTGCC	GGTCTGGATG
1140	AGGATTGCTT	ACGACTTCCT	TTCCTAATTC	TGTGTATAGC	CTGATTTGGA	AGTTAAGCAC
1200	GCACCATAAA	TGACTTGATA	TGACAAAACC	GCAGCACCAC	TGGCTCTGTC	TAGCTAGAAT
1260	TTTGGCATCT	GAAACCAATA	тстсаттала	TCGCGCTGAT	TTTGACAGCA	CTTCTCCCCC
1320	ATATCCCATC	ACCTGTTCCC	AAGGGGCAAG	GCCTTATCAT	GTCCTTCTTG	GGTAGGCATT
1380	ATCATCTGCA	GCTTTGACGA	TTTCATCCAA	TTGGAGTCGA	GAGGATAATG	CTTCTCCATA
1440	TTATATTCCT	GCCGTCAATA	CAAAÁCGGAA	CCCATCAAGT	ATCATGAATC	TGGTCTTGAC
1500	TCACTGGCTG	CATTTCGTGT	ACTTGCGAAA	TCAATCATAT	TAGAAGAGAA	GCACCCAGTA
1560	CGATAATAGT	TGGATTCATA	AGGTACCATC	CCATTCTGGA	AACACCCGTT	TTTCATTTCC
1620	TTATAGACTA	GAAGGTATGG	CAACAACTGA	AATGGTGCAT	TGTTGTTTGG	AATCAGGGAC
1680	TTCAAATCAC	AACCATCACC	GATAAGCTTG	CCCGCATCGT	GACTCCAATA	CATCCATAAT
1740	GCGTTATAGT	AGTTTCTGGC	TTGAAAAACT	TCTGGATTAG	AGCTGGATCA	GAATGACCTG
1800	TCTTTATGAC	CTCATCGTAT	CATTTCCATC	TTGTAGGTTA	ATAACCCCAG	TTTGTGGATC
1860	TAATCAAAAG	CTTCTTGATG	TGTAGCCCAG	TGAACATAAT	TGGTTGCAAT	GGTCTGCAAT
1920	AAAGTTCCTC	AGCACCCAAG	CAGCCTGAGC	TTAACTGTTC	GCCGTATTGG	CAGTTGACTG
1980	TGCATTTCAC	ATCACGAATG	ATTTAGTCAA	GATGTAGGTG	ATCTACACCC	GAAGATGTTC
2040	TGCTTAACCT	CTCCGAACCG	GCCAAGTAGC	TTTTCCAAGC	CTTACATGGA	AGATAACTGC
2100	CCATCAGGGC	TGAACGTTTG	TCAGAATAGC	TCTACATGGC	AACTTGCTTT	CGAAGTTTTC
2160	TGGACTTGAT	ATGAGGGAAT	GTGTTTGGTG	TCACGTGTCA	TGTATAAGGA	TGGTCGCGAT
2220	CCGATTGTAT	ACTCCAGACA	CAACATCCAA	AAATCTTCTT	CTTACCTACC	actgataagt

			902			
TGTCCTTATG	ATTATAAGAG	TAGCTATTGC	CTCTTTTCAT	CTCAAAAGTC	TTCCAAACGG	2280
GTGCATCATT	AGCAGCTGAT	TCATAAACGA	CAACTTGCAC	TTCTGTCGCT	GTAGGTGACC	2340
AGAGAGAAAA	ATGAGCCTGA	TTGTCCTCTA	CACGGCAACC	CAATTCTCCT	TGGTAACCCC	2400
AATGATGATC	AAAACTAGCA	CTGTTAATGG	CCTTATCAAA	GGCAAAAGGA	TTTTGATTTT	2460
TATAGAAAGG	ACTGGCAATA	GCAGGATTTT	CAGAGTAATA	AATCCTATCA	TCGCCTTCCA	2520
AAATCCAGAC	CTCTGTTAAT	AGGGGATAGT	GATTAAAACG	GATAGAATAT	TCTTTACTAG	2580
TTTGACCTGT	ATGAACCACA	AAATTCAAGC	TTTCTATAAC	ATGTGAACTT	GGGTGTTCAA	2640
AGCTAAATAA	AGCTCCAAAA	TAATCTTCTT	TGTAGGTTAG	CAAATCAATT	CGTTGATCCT	2700
GACTTTTTAC	AAAGGAGCAA	GTGTCATATT	CTCCATTCTT	ACGATGGTAA	TGAATGCGCA	2760
TAGGGTAGTT	ATACATTTTT	TATTTTTCCT	TTTTACTTTG	TTTCTATTTC	ACTAATAAAT	2820
TTTTGTCAAT	CTCGTCTCAA	TTAACAGACA	TAGTCATATT	CTCTAAACTC	TGTTTTTAAA	2880
CGATCCATTA	CAAACTTTCT	AGCCATGCCT	CATCTCTGAC	CTGGATACCA	AGTTCTTGTG	2940
CTTTTTGCAG	TTTACTTCCA	GCGTCTGCAC	CTACCACGAC	GAGGTCGGTC	TTTTTAGAAA	3000
TACTACCTGT	CACTTTGGCA	CCCAGACTTT	CGAGTTTACT	TTTAGCTTCT	GAGCGCTTGA	3060
GTCGTTCCAA	TTTTCCTGTC	AATACCACGG	TCAAACCTGA	CAAGGCCGCA	TCCGCTACTA	3120
CCGTCTGTCC	TTTATAGTCC	AGATTGACCC	CAGTTTCTTT	CAATTCTCTG	AGCAGAATTT	3180
CAGAGCCTTC	TGTCGCAAAA	TAAGTCTGAA	GACTTTTGGC	AATCACGCCA	CCTAGACTTT	3240
CAATACTAGC	CACTTCCTCT	GAATCTGCCT	GAGACAGATT	TTCAATTGAA	TGGAAATATT	3300
GAAGTAAAAG	CTGACTAACC	TTGCTTCCGA	CATGACGAAT	TCCCAAACCA	AATAAGAGCT	3360
TCTCGGCAGA	ATTTTCCTTT	GATGCTTGGA	TAGCCTGATA	CAGTTTAGCA	GCGGACTTTT	3420
CCTTAACTCC	CTCTAAAAGG	AGGAAATCCT	CTTCTTGCAA	ACGATAAATA	TCCGCCACAT	3480
CCTTGACTAA	ATTAGCAGCA	AAAAGCTTCT	CAACAATAGA	TGGACCAAGG	CCTGTAATAT	3540
TCATAGCATC	ACGAGAAGCA	AAGTGAATCA	AGCCTTCCAT	GATTTGAGCA	GGGCAACGCG	3600
GATTGATACA	ACGTAGGGCC	ACTTCATCTT	CAAAGTGCAA	CAAGTCAGAG	TTACAACTTG	3660
GACAGTTTGT	AGGGATATCT	AGTTTTTCTT	CAGAAACCCG	TTTGGACTCT	ACCACACGTA	3720
AAACGGCAGG	GATGATGTCA	CCAGCCTTAT	ATACAATGAC	CGTATCGTCT	TTTCGGATAT	3780
CTTTTTCAGC	AATATAATCT	ACATTGTGCA	GGGTCGCACG	GCTAACAGTC	GTACCGGCAA	3840
GTTGTACTGG	TGTTAGATTA	GCAGTTGGAG	TTACAACACC	GGTACGGCCA	ACTGTCCAGT	3900
CAACTGATAA	GAGTTGAGCT	TCTTTTTCTT	CGGCAGGGAA	CTTGTAGGCT	ACTGCCCACT	3960
TTGGAGCCTT	AACTGTAAAA	CCAAGTTCTT	CTTGACTTGC	TAGGTCGTTG	ACCTTGATTA	4020

CACTC	CATC	AATATCGTAA	GGCAGATTTT	CCCGTTCCTG	TCCTACTTCT	TGGATAAAAT	4080
rccagan	rttc	ATCTATGTTT	TCAGCCAAGA	TTCGCTTAGG	ATTGACCACA	AAACCTAGTT	4140
STTCTAC	GTA	CTTCAAACCC	TTTTCTTGGC	TATCACGAGT	TGAAGGGCTG	GCTTCTTGAT	4200
AGAGAAA	ACGT	TGCAAGATTA	CGCTTGGCAA	CTACTGCTGT	ATCCAACTGA	CGCAGAGTTC	4260
CTGCTGC	CCCC	ATTACGAGGA	TTAGCAAATT	CAGGCTCTCC	ATTTTCTTGG	CGCGCTTGGT	4320
PAACTTO	GTC	AAAGGAAGCG	CGTGGCATGT	AACATTCCCC	ACGAACTGTG	ATATCTAGTT	4380
CTTCTGC	GCAA	AGTCAAAGGG	ATGTCCTTAA	CACGCTTGAG	GTTTTCTGTG	ATATTTTCAC	4440
CAATTGA	AACC	ATCTCCACGT	GTTACCCCAG	CAACCAAAAT	CCCCTTTTCA	TAAGTCAGCG	4500
agatag <i>i</i>	ATAA	GCCATCGATT	TTCAGCTCAC	AAATATAGGT	CGGATGAGCC	ACTTCCTTAC	4560
GAACACO	GCGC	ATCAAAAGCA	TCTAGCTCCT	CACATGAAAA	AGCATCCTGC	АААСТАТААА	4620
GAGGAT <i>i</i>	ACTG	ATGACTGTAT	TTTTCAAAAC	CATCTAAAAC	CTTGCCACCA	ACACGATGAG	4680
rcggaci	rgtc	TGCTAGCACT	TGCTCTGGAT	AAGCAGTTTC	TAACTCGACC	AACTCACGGT	4740
AAAGGCC	GTC	ATACTCACTG	TCTGAAACCG	AGGGATTATC	GCTGGTATAG	TACTCAGTCG	4800
CATAGCO	GATT	GAGCAAAGCG	ACTAACTCAT	TCATTCTTTT	ATTCATAAGA	CCATTTTACC	4860
NAAAAT	CAAG	CCCTCCTCAC	AAACGAGAAG	GGCGGAAAAA	ACACTTAGTT	TGAAATTATT	4920
rttgaa <i>i</i>	ACTC	AAGCAACCTT	ATATCAATTT	TTCAAAATGA	GTTCGAACAT	ATCCGAGAGC	4980
raagaa <i>i</i>	ATAT	AAGGCTACAA	CTCCAAGTCC	AATAATCAAG	AAAGAATAAA	GATGGACACT	5040
rggcaac	GACT	GTCATAAATC	CTTTTGCAAT	AGGCATAAAT	AGAATAGCTA	AGGTAAAAAT	5100
rgtact(	CAGT	ACTCTTCCAA	GAAATTCGCT	CTCAACCTTG	GTTTGTACTT	GAGTAAAAA	5160
STGAATA	ATTA	AAAATCGTCA	TAAACAATTC	ACAAACTAAA	TTTCCAGAAA	AGGAAAGAAA	5220
AGTTGG#	AAGT	GGTAATCCCA	TCATAAAAAC	TCCGACACCT	GTCAAAGCCA	GTAAAATCAA	5280
aagatt <i>i</i>	AATA	ATATTAGCTT	TAATTTTACT	AGCTAGAAGA	GCCCCAATGA	TGGAACCAAT	5340
AGCCCCC	CATA	GTTAAAATAC	TTGCATAGGC	TCCTTCTGAC	CCGTAAAGCT	GATTCGAAAA	5400
GGAAGT	<b>FAGA</b>	AATTCAAAAG	CTGCAAAAAA	GAAATTAACG	CTGGAAGCTA	CCAGCAAAAG	5460
GAAGAA	AATT	TCTTGCTGAT	GCCAGATATA	GTGTAACCCA	TCCTTGATAT	СТАСАААААТ	5520
ATCTCTC	CCA	GTAAAAGCCT	TTTTCTCTTG	AACTTTTGCT	TCCTCTTTTG	GAAGGAAAGC	5580
CACTAGA	AACA	AAAGCAATGA	AAAAAGTCAG	CGAGTCTAGC	AGTAGCGTCA	TATGGAGACT	5640
rgcaaac	CTGT	AAAACAAGGA	AGGAAAGAAC	AGGAGAGCTA	ACACCTACAA	CCTGCAAAAC	5700
CAGCTCT	<b>FAAG</b>	CGAGAATTAT	AGATCACAAT	CTCATCTTTC	TCCACCACTT	CAGTTATGAT	5760

			904			
AGCTTTATTG	GCTGTGCGAG	AAAAGGCAAA	AGCAATAGCC	TGCACAATGT	TAGCAACAAT	5820
CAAAGCGCCA	ATCATCCAGC	TATCATTCCT	TATGAAAGAA	ATAGCCAGAC	AAAGAATCCC	5880
ACAAACAAGA	TCTGCCGTCA	TTAAAATCTT	ACGACGAGAA	AAACGGTCTG	AAATAACTCC	5940
GCCAAAGGGA	TTGACGAGAA	TAGATGTGAC	GAGCTCAGAA	ATCTGATACA	TTCCTAAAAC	6000
TGTCTGTCCT	ATAGTCCCCA	TAGAAGCCAA	CCAGACACTA	TTTCCATAAT	CATAGAGCAT	6060
ATTTCCCATT	TTATTGATAG	CCCCACGGCT	AATCAACTGC	ACTGCATAGC	GATTCATATT	6120
AAAGCTCCTC	TCAAATTTTG	AAACTATTGT	ATCAAAACCG	AAAGGAGCTT	TTTATTTTTT	6180
CCCTTATTTG	GGAAAATTAA	CTTTTGACAA	ATTTTTCGTA	GTGTTCCTGA	TAATAGGCTA	6240
CTTGCTCTGG	AAGACCTAAC	ACATCAAAAA	TATGCATGGC	CTCTTGCATC	TGCTTACAGC	6300
CTTCTTTACA	CTGTCCTTTT	TGATATAAGG	CAAAACCTTT	TAAATAATGG	AAAACATTAC	6360
GCTCATAAAG	CTTAATACCT	TTGTCAATAA	TCTTCTCTGT	ATAAGCCTCA	Aaatagttgg	6420
CATTATAAAA	AGAAGAATGC	TCTAAACAAT	GCTGGTAACA	ATTGAGGGCC	AAAATCAACA	6480
CTAATCTCTT	ATGGCGACTA	ATCTCTTGGT	AAAATTCCTC	CCTCTCCATA	ACTTCTCTAC	6540
CAATCCGAGT	GACATAGTCT	ACATCGTAGA	AACTATAGAG	GTTACCGAAA	AGAATCAACT	6600
CATACATGGT	CCATTCTTCT	GTTTTGAAGA	GATAATCTGC	TACCTTACCC	AAATCATCCT	6660
GCTTCATATC	ATAACTCGCA	TCTCTTTGAC	AAATCAGACC	TTGTAGCAAA	ATCCAGTTCA	6720
GCTCAAAATA	AAGGGGAGTC	GTCGAACTCT	TAGACTTTTC	AAGTTGTTCT	CTTTGAAGCT	6780
TTTGAAAACC	TGCAATATCG	TTTGAATAGT	AAAGTGGGAT	AATCTGTGCC	ATCATAGACA .	6840
CATGTTCATG	ATTATGAAAA	TTCCTTGCCT	TATCCATGAA	ATTTTCGATT	GTTACATGAA	6900
TGTTATCCAA	AATCTCAAAG	AAACGGGAGA	CTGCCAGGTC	AGACTCCCCA	AGCTCAAAGC	6960
GAGATAACTG	AGAGGTAGAG	CAGGATTCGC	CTGCTGCTTC	CTTTAAAGAA	TAATTTCCAC	7020
TTGTTCGAAA	TTCACGAAAT	ACTTTTCCAA	GATGTTCCAT	CTTTACACCT	GCTCTGATAA	7080
TTCTTCCCAC	TCAAGCATAG	CTTCTTCCTG	ACGATGGCTG	ATTTTGTCCA	GCTCAGCCTG	7140
TAATTCCATG	AGTTTGTCGG	CATCGTTTGT	TTCCAACATT	TGTTCAGAAA	TGGCTTGGCT	7200
TTGACTTTCT	AGCTCTTCAA	TTTCAGCTTC	TAGACTTTCG	ATTTGTCGCA	TGAGTTTGCG	7260
AACTTCTTTT	TGACTTTCTT	TCTGGGCCTG	ATAGTCATTG	ACTGGACTTG	CTTCCTTTGC	7320
TTGATTGCTA	GTTGAAGCTT	CCTCAGTCTG	ACTCATTTCT	GCTGTTGCTT	TCTTCTCAAC	7380
ATAGTAGTCG	TAATCTCCAA	GGTAGAGAGT	TGAACCATTC	TCAGACAATT	CCAAAACATG	7440
AGTTGCCACA	CGATTGATAA	AGTAACGATC	ATGACTGACA	AACAGCAAGG	TTCCATCAAA	7500
GTCAATCAAG	GCATTTTCTA	GCACTTCCTT	АСТАТСААТА	TCCAAGTGGT	TGGTCGGCTC	7560

TCCAGAATC	AAAAAGTTAT	TGTTTTCCAT	AGACAATTTA	GCTAAAAGCA	AACGAGCTTT	7620
TCGCCACCA	GATAGCATGC	CGACTGATTT	TTTAACATCA	TCTCCTGAGA	AAAGGAAGGC	7680
CCAAGACGG	TTGCGGATTT	CAACTTCTGG	TGTCAGTTTG	AAATCATTCC	AGAGTTCATC	7740
CAGCACCGTA	TTACTTGGTG	TCAGCTTGCT	TTGGGTTTGG	TCATAGTAAC	CAACCTCAAC	7800
ATTAGCGCCA	AAGCGCTTTT	CTCCCTTGAT	AAAAGGAATC	TGGTCCACAA	TAGACTTGAT	7860
AAAGGTTGAC	TTGCCGATAC	CATTTGGACC	AACGATAGCG	ACAGCATTCA	TCTTACGAAG	7920
ATCTAGGTTA	ATCGGTTGTG	ACAAGACTTC	CCCGTCATAG	CCAACAGCTG	CATTTTCAAC	7980
AGTCAAAACA	ACATTGCCCG	ACGTTTTTC	AGACTGGAAG	GTCATGTTGG	CTGATTTCTT	8040
GCCAGCTTCA	GGCTTGTCCA	AACGTTCCAT	TTTTTCCAGT	TGTTTACGGC	GAGATTGAGC	8100
ACGTTTAGTC	GTTGAAGCAC	GAACTAGATT	GCGATTGACA	AAGTCTTCCA	GAGCAGCGAT	8160
<b>TCCTTCTGT</b>	TGCTTTTCAT	AGTTTTTTGC	CTCAGTAACT	AGCTTTTGCT	CCTTCAATTC	8220
GACAAAACGA	GAGTAATTCC	CCACATAGCG	ATCCAAGGAA	TGCTTGGTCA	AATCTAGCGT	8280
AATTGTCGCA	ACCTTGTCCA	AGAAATAACG	GTCGTGGCTG	ACGATAATGA	GGGCACCGCT	8340
ATAGTTTACC	AAGTAATTCT	CTAGCCAGGC	GATGGTTTCA	ATATCCAAGT	GGTTAGTTGG	8400
CTCGTCCAAG	ACCAAGAGAT	TGGGCTTTTC	AAGGAGCATT	TTGGCAAGTG	CCAAACGAGT	8460
ATTTTGACCA	CCAGAAAGCT	CAGCAATTTT	CATCTGCCAC	ATAGACTCGT	CAAACTTGAA	8520
rccattcaaa	ATCGCTCGAA	TATCAGCTTC	ATAGGTAAAG	CCACCTGCTT	GGCGAAAATT	8580
CTCAGATAAG	CGGTCATAAT	CTGACATCAG	TTTATCCAAA	TCCTCACCAG	ACTTTTCACC	8640
CATCTCCAGC	TCCATCTGAC	GCAGTTGTCT	CTCCGTCCGA	CGCAAATCAT	TAAAGACATG	8700
AAGCATTTCA	TCGTAGATGG	TATTTTCAGA	CTCAAAACGG	CTATCTTGGG	CTAGGTAAGA	8760
CAGAGAAATA	TCTTTTTTCT	TATTGATTTC	TCCGCTAGTT	GGCTCCTCTT	CTCCAACTAA	8820
AATCTTCAAA	AGAGTAGACT	TACCTGCACC	ATTTTTCCCA	ACAAGAGCAA	TCCGATCTCG	8880
TTCATCAACC	TGCAGGTTGA	TATTATCGAA	AAGAACCTCT	CCTGCAAAAG	AACGTTCAAT	8940
TTTATTAGCT	TGTAAAATAA	TCATACAAGT	AGTATAGCAT	GTTTCCCTAA	GGCATTCAAG	9000
ATAATCGTAA	GTCTTTTAGT	ACAACTTTTA	ТААСАТАААА	TAAACTAAAT	TATGTATATT	9060
TTATATTAGA	TTACTTCACT	ATCTTGTTGG	ATTTTCTAAC	CAGCTAATCT	TGTTTCAAAT	9120
AGTTATCGCA	CAAGTCTATT	ATTTAATTCT	TTTCATCATT	TACGTACGTA	TAGCAGATTG	9180
AAATAAGATG	AGAACAAATC	GATTGGGAAA	GTAAAATTAA	TTTCTATAAA	TGTTTTAGCA	9240
ATTGTTTCGT	ACTATTTAG	ATTCAGTCTA	СТАТАТАСАА	TATTTTCGGA	ACATTCAACT	9300

005	
906 TTTTAACTCT ATTTATTACT AGATTTCATA ATTAAAAAAC CTACTGACCA AGCTAGAAAG	9360
CTTGATACAA TAGGCTTTTT AAAGACTGAT TATTTAACAG CGTCTTTAAG AGCTTTACCA	9420
GCTTTGAATG CTGGTACTTT AGAAGCTGCA ATTGTCATTT CTTTACCAGT TTGTGGGTTG	9480
CGACCTTTAC GTTCTGCGCG CTCACGAACT TCAAAGTTAC CAAAACCGAT CAATTGAACT	9540
T	9541
(2) INFORMATION FOR SEQ ID NO: 133:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 3502 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	·
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 133:	
•	
TTGACTATCC TATCATGCTT TCTAAGGTCT ACTCAAGAAA ATCATTTTCA AGTTTTCACA	60
CCTTTCTCAA AAAAGTTAAA AAATTTTCTC AAAAACGCTT GACTCTGACC TAAGGCGAAG	120
GGTTATACTA TCATTGTAAG GAGGAAATCA TGTACCATAT AAAAGAAGCT GCGCAGCTTT	180
CAGGTGTCTC TGTCAAGACC CTGCATCACT ATGACAAGAT AGGACTCTTG GTCCCCTTAA	. 240
AGTCGGAAAA CGGCTATCGA ACCTACAGTC AAGAGGATTT GGAACGCCTT CAGGTCATTC	300
TTTACTACAA ATATCTAGGC TTTTCTTTAG AGAAAATAGC AGAGCTGTTA AAGGAAGAAA	360
GGACAGATTT ATTGCCCCAT TTGACTAGGC AGTTGGACTA TCTAACTCGC GAAAGGCAAC	420
ATCTGGATAC CTTGATTTCC ACCTTGCAAA AAACTATTCA AGAACAAAAA GGAGAAAGAA	480
AAATGACCAT TGAGGAAAAA TTCACGGGAT TTAGCTATCA AGACAATCAA AAATACCACC	540
AAGAAGCGGT AGAGAAATAT GGTCAAGAAG TCATGGGACA AGCGCTCGAA CGCCAAAAAG	600
GTCACGAAGA CGAGGCTACG GCCGCCTTTA ACCAAGTCTT TCAAACTTTG GCACAAAATC	660
TTCAAGTTGG TTTACCTGCA ACAGCAACCG AAAACCAGGA GCAAGCAGCC AAGCTCTTGC	720
AAGCCATTCG CACTTATGGA TTTGACTGCT CTATTGAGGT ATTCGGTCAT ATCGGTAAAG	780
GTTACGTCTA CAACCCAGAG TTTAAGGAAA ACATTGACAA GTTTGGTTCT GAAACAGCCC	840
AGTACACGTC AGATGCCATT GCGGTTTACG TTCAGACAAA TGCAGAATAA ATAGGCTAGG	900
AATTTCCTAG CCTATTTTT ACTTCAAATC ATAAAGCCAG TCGTCACCGT TTTTGTAGTA	960
AAAGAATTCA CTGAGATCTT CTTCTAGAAA CACACGAAGC ATATCAGACA TATCATCGGT	1020
TGCAAGTTTT AGATGAGAAA GATTTTCAAA GTCCTCCCAC CAAACTTTCC CTTCGTCTGA	1080

AGACTGGAGT TCACCAGTAA AGTGTTCTGT CTTGTAAAAA AGGACGACAT AACGATAATC

TTGTCGTCA	TACCAGTTTT	TGATACCACA	GAGTTGGGGT	TTGGAAATGA	TCAGACCAGT	1200
TCTTCTTTC	ACTTCACGAA	TGACAGCATC	GACAAAGGAT	TCGCCACGTT	CAACATGACC	1260
ACCAGGAAAA	GTAATGCCAG	ACCAGTCGGG	ATTAACTCGG	TCTTGGACCA	GGACCTTATC	1320
CCGTTTTTA	ATCATACACA	TGTTAACAAA	TTCGACTGCC	TCTCTTCTGT	TCATTCTTCA	1380
CAACCTTTAA	TCTTTAATCA	TAATGCAGAC	TTCCCGCCAC	CCAGCCGGTA	CAGAGGCAG	1440
lagtgatgtt	AAAGCCACCC	GTGTGGGCAT	TGATATCCAT	AACTTCGCCT	GCAAAGTGGA	1500
GCCAGGTAC	CAGCTTACTT	TCAAGGGTTT	TAGGATTGAT	TTCCTTGAGA	CTGACTCCAC	1560
CTTGGTAAC	AAAGGACTTT	GCAAGGGACA	TTTTTCCAGT	TACAGGAATT	TTAAGTTCTT	1620
PAATGGACTG	GACAAGTTGT	TCTCGTTCCT	TTTCAGTCAG	TTGTTTGACT	TTTTCAGGAT	1680
ATCCTTGTAC	AAAAAATTCG	GCCAAGCGTT	CTGGTAACAA	GGTTTTTAAA	GCGTTTTTCA	1740
AGGA <b>TT</b> TTTC	CCGATTTTCT	TCTAGAAATG	TAACCAAGTC	CTTCTCAGAA	AGTTGAGGCA	1800
AACATCGAG	TGAGAGAACC	TCCCCACCTT	TGACAAAGCT	AGACATGCGT	AGGGCAGCAG	1860
GACCTGACAA	ACCAAAGTGG	GTAAAGAGTA	AATCATGAGT	GATGACATGC	TTACCATAAC	1920
TAGGGTCAC	ATCGTCCAGA	GAAATACCTT	GTAAGGCTTT	ATGTGGAAAA	TCTGTTAATA	1980
AGGACTTTC	AGCAGCCTCA	AGATCGGTGA	TGGTATGCTT	AAAATGGCGA	GCAATCTCGT	2040
FACCAAAACC	AGTCGAACCA	GTCGAAGGAT	AAGACTTACC	ACCTGTTGTG	ACAATGAGTT	2100
CTCACAAGT	GAAGGTTTGA	TCCGCTGACT	TAAGGACAAA	CTGGTCATCT	ACTTTTTTAA	2160
AGAAACGAT	TTCTATTTGA	GTAGCAACTT	GACCACCTAG	TTCGGTGATT	TTCTTTTCCA	2220
AGCTTCGAT	AATAGTCCGA	GACTTGTCAC	TGGCTGGAAA	GACGCGTCCG	TGGTCTTCGA	2280
CTTAAGTTT	AACACCATTT	TCTGTAAAAA	AGTTGATGAT	GTCATGATTA	TCGAACTGGG	2340
GAAAACACT	GTAAAGAAAG	CGTCCGTTTC	CAGGAATTCC	AGCTAGCAGG	TTGTCTAAGC	2400
PACCATTGTT	GGTCACATTG	CAACGTCCCC	CACCAGTCCC	AGCTAATTTT	TTTCCAAGTT	2460
CCGATTTTT	TTCGATGAGG	AGGGTTTTCT	GTCCATAAAA	GCTACTGGAA	ATCGTAGCCA	2520
CATACCAGC	AGGTCCCCCA	CCGATGACAA	TAGTATCAAA	ATGTTTCATA	GCTCTATTGT.	2580
ACCACAAAAA	AACAAGAGAT	GATGGTCACC	TCTTGTCAAG	AATGCAATTA	ATCAATTTCA	2640
AGCCCATCA	GCAAACCGCC	CTCTTCTGCA	TAGAAACTGC	AGAGACCAGA	GGTTGGTAGA	2700
TATAATTT	CCGCTTGTGG	GAAGGTTTCA	CGGATTCGCT	CTGAGAGCTG	TTGACAACAT	2760
TTTCGTTAT	TGCGTTGGGC	CATGACAATA	CGGCCACCAG	CATATCCAGC	TTTTACTAAC	2820
CATCATAGG	CAGCTTGAAC	TGATTTCTTT	GATCCCCTTG	CTTTTTGTAG	CAATTCGAGA	2880

				908			
GT	CCAGTTT	CACTAGCTTT	TCCGACCATA	CGAATGTTGA	GAAGGCCAAC	GACCGTACCG	2940
AT?	AGCTTGC	TCAAACGGCC	GTTCTTCACC	AAGTTATCGA	CTTTGGCTAG	GACAAAGAGC	3000
AA(	TTAGTTT	TTTCTTGATA	GGCGGTGATA	GCTTCAACCA	CTTCTTCAAA	AGACAAGCCC	3060
TG	TCAATCA	AGTCATTCAA	TTTTTCTACG	AGTAGGTCAA	CTTCACCACC	AGCAGATAAA	3120
ÇТZ	ATCAATCA	CATGAATCTT	AGTGTCAGGA	TGGTCTTCCA	GATAAATATT	CTTTGCTAGT	3180
TG/	AGCACTAT	TGTGACTGCC	AGAAAGGGTA	CCTGTGATGG	TTACTAGGAA	AATGTTTTTG	3240
GC/	ACCTTCAA	ATGCTCGCAA	ATAGTCATCT	GGGCTTGGAC	AAGCCGATTT	TGAAGCTTCT	3300
GC	AGTTGCAT	ACATGGTTTC	CATCATTTGG	TCAATATCGA	GACTGGCGTC	ATCAACAAAG	3360
AC	CTGATCAG	CTACTTGAAT	GGTTAAGGGG	ACACTTACAA	AGGTTGTGTT	AATAGCTGGT	3420
GT.	rggcagtt	GACGATAATC	ACAACCAGAG	TCAGCAATAA	TCTTCCAAGT	CATAGAAATT	3480
CT	CATCTTT	GTCAGGAACG	AT				3502

## (2) INFORMATION FOR SEQ ID NO: 134:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 12665 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 134:

CGATT	GATTT	TTTTAAAGCG	TTCGATAGAG	AATGAGAAAC	GAATCCTTAG	CAATGGCGGG	60
AAAGA	ATTTG	GAGTTGAGAA	TACAAAACGA	TTAACTATGG	CTCATATTGT	TTTTTATCTC	120
TCTTG	CTTGG	TTGAGGCAAT	GGTGCACAAG	ACAATTTTTG	ATGGCATGGG	CATGGTTGGT	180
TTAGT	CTTGC	TTATTTTTTC	TATGCTGATG	TTGATGTTGG	TGATTCACTT	GTTGGGAGAT	240
ATTTG	GACAG	TGAAGCTTAT	GCTTGTCAAT	AATCACAAAT	ATGTAGATCA	TATCTTGTTT	300
AGGAC	AGTAA	AACACCCTAA	TTACTTTTTA	AATATTCTTC	CTGAGTTGAT	TGGCTTGACC	360
TTGTT	GAGTC	ATGCTTATGT	GACTTTTGTT	TTAGTTTTTC	CAGTTTATGC	AGTTATTTTG	420
TATCG	ACGAA	TAGCTGAAGA	GGAAAAGCTA	TTACATGAAG	TTATAATCCC	AAATGGAAGC	480
ATAAA	GAGAT	AAATACAAAA	TTCGATTTAT	ATACAGTTCA	TATTGAAGTG	ATATAGTAAG	540
GTTAA	AGAAA	AAATATAGAA	GGAAATAAAC	ATGTTTGCAT	CAAAAAGCGA	AAGAAAAGTA	600
CATTA	TTCAA	TTCGTAAATT	TAGTGTTGGA	GTAGCTAGTG	TAGTTGTTGC	CAGTCTTGTT	660
ATGGG	AAGTG	TGGTTCATGC	GACAGAGAAC	GAGGGAGCTA	CCCAAGTACC	CACTTCTTCT	720
AATAG	GGCAA	ATGAAAGTCA	GGCAGAACAA	GGAGAACAAC	CTAAAAAACT	CGATTCAGAA	780

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CGAGATAAG	G CAAGGAAAGA	GGTCGAGGAA	TATGTAAAAA	AAATAGTGGG	TGAGAGCTAT	840
GCAAAATCA	A 'CTAAAAAGCG	ACATACAATT	ACTGTAGCTC	TAGTTAACGA	GTTGAACAAC	900
ATTAAGAAC	G AGTATTTGAA	TAAAATAGTT	GAATCAACCT	CAGAAAGCCA	ACTACAGATA	960
CTGATGATG	G AGAGTCGATC	AAAAGTAGAT	GAAGCTGTGT	CTAAGTTTGA	AAAGGACTCA	1020
TCTTCTTCG	T CAAGTTCAGA	CTCTTCCACT	AAACCGGAAG	CTTCAGATAC	AGCGAAGCCA	1080
AACAAGCCG	A CAGAACCAGG	AGAAAAGGTA	GCAGAAGCTA	AGAAGAAGGT	TGAAGAAGCT	1140
GAGAAAAA	G CCAAGGATCA	AAAAGAAGAA	GATCGTCGTA	ACTACCCAAC	CATTACTTAC	1200
AAAACGCTT	G AACTTGAAAT	TGCTGAGTCC	GATGTGGAAG	TTAAAAAAGC	GGAGCTTGAA	1260
СТАСТАААА	G TGAAAGCTAA	CGAACCTCGA	GACGAGCAAA	AAATTAAGCA	AGCAGAAGCG	1320
GAAGTTGAG	A GTAAACAAGC	TGAGGCTACA	AGGTTAAAAA	AAATCAAGAC	AGATCGTGAA	1380
GAAGCAGAA	G AAGAAGCTAA	ACGAAGAGCA	GATGCTAAAG	AGCAAGGTAA	ACCAAAGGGG	1440
CGGGCAAAA	C GAGGAGTTCC	TGGAGAGCTA	GCAACACCTG	ATAAAAAAGA	AAATGATGCG	1500
AAGTCTTCA	G ATTCTAGCGT	AGGTGAAGAA	ACTCTTCCAA	GCCCATCCCT	GAAACCAGAA	1560
AAAAAGGTA	G CAGAAGCTGA	GAAGAAGGTT	GAAGAAGCTA	AGAAAAAAGC	CGAGGATCAA	1620
AAAGAAGAA	G ATCGCCGTAA	CTACCCAACC	AATACTTACA	AAACGCTTGA	ACTTGAAATT	1680
GCTGAGTCC	G ATGTGGAAGT	TAAAAAAGCG	GAGCTTGAAC	TAGTAAAAGA	GGAAGCTAAG	1740
GAACCTCGA	A ACGAGGAAAA	AGTTAAGCAA	GCAAAAGCGG	AAGTTGAGAG	TAAAAAAGCT	1800
GAGGCTACA	A GGTTAGAAAA	AATCAAGACA	GATCGTAAAA	AAGCAGAAGA	AGAAGCTAAA	1860
CGAAAAGCA	G CAGAAGAAGA	TAAAGTTAAA	GAAAAACCAG	CTGAACAACC	ACAACCAGCG	1920
CCGGCTCCA	A AAGCAGAAAA	ACCAGCTCCA	GCTCCAAAAC	CAGAGAATCC	AGCTGAACAA	1980
CCAAAAGCA	G AAAAACCAGC	TGATCAACAA	GCTGAAGAAG	ACTATGCTCG	TAGATCAGAA	2040
GAAGAATAT	'A ATCGCTTGAC	TCAACAGCAA	CCGCCAAAAA	CTGAAAAACC	AGCACAACCA	2100
TCTACTCCA	A AAACAGGCTG	GAAACAAGAA	AACGGTATGT	GGTACTTCTA	CAATACTGAT	2160
GGTTCAATG	G CGACAGGATG	GCTCCAAAAC	AATGGCTCAT	GGTACTACCT	CAACAGCAAT	2220
GGCGCTATG	G CGACAGGATG	GCTCCAAAAC	AATGGTTCAT	GGTACTATCT	AAACGCTAAT	2280
GGTTCAATG	G CAACAGGATG	GCTCCAAAAC	AATGGTTCAT	GGTACTACCT	AAACGCTAAT	2340
GGTTCAATG	G CGACAGGATG	GCTCCAATAC	AATGGCTCAT	GGTACTACCT	AAACGCTAAT	2400
GGTTCAATG	G CGACAGGATG	GCTCCAATAC	AATGGCTCAT	GGTACTACCT	AAACGCTAAT	2460
GGTGATATG	G CGACAGGTTG	GGTGAAAGAT	GGAGATACCT	GGTACTATCT	TGAAGCATCA	2520

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GGTGCTATGA	AAGCAAGCCA	ATGGTTCAAA	GTATCAGATA	AATGGTACTA	TGTCAATGGC	2580
TCAGGTGCCC	TTGCAGTCAA	CACAACTGTA	GATGGCTATG	GAGTCAATGC	CAATGGTGAA	2640
TGGGTAAACT	AAACCTAATA	TAACTAGTTA	ATACTGACTT	CCTGTAAGAA	CTCTTTAAAG	2700
PATTCCCTAC	AAATACCATA	TCCTTTCAGT	AGATAATATA	CCCTTGTAGG	AAGTTTAGAT	2760
ТАААААТАА <sup>.</sup>	CTCTGTAATC	TCTAGCCGGA	TTTATAGCGC	TAGAGACTAC	GGAGTTTTTT	2820
TGATGAGGAA	AGAATGGCGG	CATTCAAGAG	GCTCTTTAAG	AGAGTTACGG	GTTTTAAACT	2880
ATTAAGCCTT	CTCCAATTGC	AAGAGGGTTT	CAATCTCTGC	CAGGGTGCTG	GCTTGCGAAA	2940
TGGCTCCACG	GAGTTTGGCA	GCGCCAGATG	TTCCACGGAG	ATAGTGAGGA	GCGAGACCGC	3000
GGAATTCACG	AACTGCGACG	TTTTCTCCTT	TGAGGTTAAT	CAATCGTTTC	AAGTGTTCGT	3060
AGGCGATCTT	CATCTTGTCT	TCAAAGGTCA	AATCAGGTAG	GATTTCTCCT	GTTTCAAAGT	3120
<b>AAT</b> GGTTGAT	TTGGTTGAAG	AGGTAAGGAT	TTCCCATGGC	AGCTCGGCCA	ATCATGACTG	3180
CGTCAGCACC	AACTTCTTCG	ATGCGTTGCT	TGGCTTCTTG	GACAGTACGG	ATATCACCGT	3240
TGGCGATGAA	TGGAATCTTG	GTTAGAGCTT	GGGCAACCTT	GTAAAGGGTC	TCAAGGTCTG	3300
CGTGGCCAGT	ATACATTTGT	TCACGGGTAC	GGCCATGCAT	GGCGAGGGCA	GAAACACCTG	3360
CAGCTTCAGC	AGCGAGAGCA	TTTTCTACTG	CAAGAGATGG	GTCCGCCCAG	CCGGTACGCA	3420
TTTTGACAGT	AAGTGGGATA	TCAAGGACAG	ACTGGACCTT	GTTGATGATG	GAGTAAATCT	3480
TGTCTGGATC	CTTGAGCCAC	ATAGCACCAG	CTTCGTTCTT	CACGATTTTG	TTGACAGGC	3540
AGCCCATGTT	GATATCGACG	ATATCGGTCT	TGGTGTTTTC	TTGGATGAAT	TCTGCTGCGC	3600
GTGCTAGGCT	GTCTTCATCG	CTACCAAAAA	GTTGGATAGA	GACAGGGTTT	TCGCCCTCAT	3660
CGATATGAAG	CATGTGCAGG	GTTTTTTCGT	TGTTGTATTG	GATTCCCTTG	TCAGAGACCA	3720
TTTCCATTAC	AACGAGTCCA	GCTCCGAGCT	CCTTTGCGAT	AGTACGAAAG	GCTGAGTTGG	3780
TCACGCCAGC	CATAGGCGCT	AAAACGGTAC	GATTGGGAAT	CTCAATATTG	ССААТСАТАА	3840
aaggtgtatt	AAGATTTGTC	ACGAATGAGT	TCCTCCAGGT	CCTTTTCATC	AAAGTTGTAA	3900
GTAGTTTGGC	AGAATTGACA	AGTGATTTCT	GCCCCGTGGT	CTTCCTCTTT	CATTTCCTGT	3960
AAGTCTGAGC	TTGGAAGGCT	GGCAAGAGCG	TTCATAAAGC	GTTCATGGCT	ACAGTCACAT	4020
IGGAAACGGA	TTTCTTCTTC	AGAAAGACGC	TTGTAGGCTT	CGTCCCCGTA	GATAGCCTTG	4080
AGGAGGGCTT	CGATATGGTC	GTCGCTTTCG	AGAAGAGTAG	AGATAGCTGG	CATTTCTTGG	4140
ATGCGTTTTT	CAAAGCGAGC	AATCTCTTCT	TTCTTGGCTC	CTGGCAAGAC	TTGAACTAGG	4200
AAACCACCTG	CAACCTTGAC	CTTGTCTTCC	TCGTCCAAAA	GGACATTGAG	GCCGACCGCT	4260
GAAGGCGTTT	GTTGGCTTTC	AGTAAGGTAA	AAGGCAAGGT	CTTCACCGAT	TTCTCCAGAG	4320

ATGAGGGGAG	TTATAGAGTT	GTAAGGATTT	CCAGTACCGT	AGTCTGTGAT	AACGAGGAAT	4380
rGACCATTTC	CAACAAAAGG	TCCGACTAGG	ACTTCACCAG	TCGCAGTCTT	TTTGATGTCA	4440
ACACCAGGAT	TTTGAACATA	GCCTTTGACG	TTCCCCTTGG	TATCAGCGAC	GGTGATAATA	4500
GCACCTAGAG	AGCTAGATCC	CAACACCTTA	ACTGTAAGTT	TGGTATTTCC	TTTTTCATTG	4560
GCTGCGAGAA	TCTGGCTAGC	GATAAGAGTT	CGACCAAGCG	CTACAGTTGA	GCTAGCTTGG	4620
GTTTGATGTT	TTTCTTGAGC	AGTGCGGACG	GTTTCAGTGC	TATCAAGGAC	AAAAGCACGA	4680
AAGGcTCCGC	TTTCTGATAT	AGTTTTAATA	ATTTTATCCA	TAGCTACTAT	TTTAGCATAA	4740
AAATGCCCAA	AGGGGGAGCC	GTGTGTTTAC	TGATTTTCAG	GATAATGGAC	CAGGAAATCA	4800
GCATGAAAAT	AAAAAGAGAA	ACAGATTATT	TTAGCATTTG	TCAGATTTAT	GCTATGCTTA	4860
AGGTAGAAAA	TGAAAGGGAT	AACAAATGTA	TTTAGGAGAT	TTGATGGAGA	AAGCCGAGTG	4920
rggtcaattt	TCAATACTTT	CCTTTCTATT	ACAAGAGTCT	CAGACGACCG	TCAAGGCTGT	4980
atggaagaa	ACAGGATTTT	CAAAAGCAAC	CCTAACCAAA	TATGTCACCC	TGCTCAATGA	5040
CAAGGCTTTG	GATAGTGGCT	TAGAGCTGGC	TATTCACTCA	GAAGATGAAA	ATCTGCGTCT	5100
STCTATCGGT	GCAGCTACCA	AGGGGAGAGA	TATTCGGAGC	TTGTTTTTGG	AGAGTGCTGT	5160
PAAATACCAG	ATTTTGGTTT	ATCTTCTCTA	CCACCAACAG	TTTTTAGCCC	ATCAGCTGGC	5220
<b>CAAGAATTG</b>	GTGATTAGCG	AGGCTACGCT	TGGTCGTCAC	TTGGCTGGTT	TAAATCAGAT	5280
TTTGTCAGAA	TTTGATTTAT	CCATCCAAAA	TGGCCGTTGG	CGAGGTCCAG	AGCATCAGAT	5340
CACTATTTC	TATTTCTGTC	TTTTCCGAAA	GGTCTGGTCG	AGTCAGGAAT	GGGAAGGTCA	5400
CATGCAGAAA	CCAGAGAGAA	AACAGGAGAT	TGCCAATTTA	GAGGAAATCT	GCGGTGCAAG	5460
TTTGTCTGCG	GGGCAGAAAT	TGGACTTGGT	TCTCTGGGCT	CACATCAGTC	AACAACGTCT	5520
rcgggtcaat	GCTTGTCAGT	TTCAAGTCAT	AGAAGAGAAA	ATGCGAGGGT	ATTTTGACAA	5580
PATCTTTTAT	CTTCGTTTGC	TGAGAAAGGT	TCCGTCCTTT	TTTGCTGGGC	AACATATTCC	5640
ACTAGGAGTT	GAGGATGGTG	AGATGATGAT	ATTCTTCTCT	TTTCTCCTAT	CTCATCGCAT	5700
CTTCCTCTT	CATACTATGG	AGTATATTCT	TGGTTTTGGA	GGGCAGTTGG	CAGATTTACT	5760
GACGCAATTG	ATTCAAGAAA	TGAAGAAGGA	GGAACTATTG	GGGGATTATA	CAGAGGACCA	5820
TGTCACCTAT	GAACTCAGTC	AGCTTTGTGC	TCAAGTCTAT	CTCTATAAGG	GCTATATTTT	5880
ACAGGATCGC	TACAAGTACC	AGTTAGAGAA	TCGTCATCCA	TATTTACTGA	TGGAACATGA	5940
<b>PTTTAAAGAG</b>	ACAGCAGAGG	AGATTTTTCA	TGCTCTACCT	GCTTTTCAAC	AGGGGACAGA	6000
ምምልርልምል አ <i>ር</i>	አልርልመጥርጥርጣ	СССААТСССТ	ССАСТТАВТС	СААТАТАТОТ	CTGAAAACGG	6060

912 TGGCCAGCAT ATGCGGATTG GTCTGGATTT GACATCTGGT TTTCTTGTCT TTTCAAGGAT 6120 GGCAGCCATT TTGAAACGGT ATTTGGAATA CAATCGTTTT ATTACCATTG AAGCTTATGA 6180 CCCTAGTCGG CATTATGATT TGCTGGTTAC CAATAACCCG ATTCATAAGA AGGAACAGAC 6240 ACCAGTCTAT TATTTAAAAA ATGACTTGGA TATGGAGGAT TTGGTAGCGA TTCGCCAGTT 6300 ATTATTCACT TAAAAGGCTT GGTTAATCCA GGTCTTTTTT GTGAAATTCA CACAATCTCC 6360 TCACATTTTT TTAAAAATTA AAAAAAGTTG ATAAACAAGA AAGCGCTTTA TTTTGTATAC 6420 TAGTAAGTGT AAAGAGGAAA CACCTCAAGA TCTTTATCAG GAGGACAGTA CATGTCACAA 6480 GAAAAATACA TCATGGCCAT TGACCAGGGA ACTACAAGTT CTCGTGCCAT CATTTTCAAC 6540 AAAAAAGGGG AAAAGGTTAG CTCGAGTCAA AAAGAGTTTA CCCAGATTTT CCCTCAGGCA 6600 GGTTGGGTTG AGCACAATGC CAATGAAATT TGGAACTCTG TTCAGTCAGT TATTGCGGGT 6660 GCTTTCATCG AAAGTGGTGT CAAGCCAAAT CAAATCGAGG CAATCGGGAT TACCAACCAA 6720 CGTGAAACAA CGGTTGTCTG GGATAAGAAA ACAGGACTTC CTATCTACAA TGCTATCGTT 6780 TGGCAGTCAC GCCAGACAGC ACCTTTGGCT GAGCAACTAA AAAGCCAAGG TTATGTGGAA 6840 AAATTCCATG AAAAGACTGG TTTGATTATT GATGCTTACT TCTCTGCTAC CAAGGTTCGT 6900 TGGATTTTGG ATCATGTAGA AGGTGCTCAA GAGCGAGCAG AAAAAGGGGA ATTGCTCTTT 6960 GGTACTATCG ATACTTGGTT GGTTTGGAAA TTGACTGACG GTGCGGCTCA CGTGACTGAC 7020 TACTCAAATG CAGCTCGTAC CATGCTTTAT AACATTAAAG AACTCAAATG GGATGATGAG 7080 ATTTTGGAAA TCCTTAACAT TCCGAAGGCT ATACTTCCAG AAGTTCGTTC TAACTCCGAA 7140 ATCTACGGCA AGACAGCTCC ATTCCATTC TACGGTGGAG AGGTGCCAAT CTCAGGTATG 7200 GCTGGGGACC AACAAGCAGC CCTCTTTGGA CAGTTGGCTT TTGAGCCAGG TATGGTTAAG 7260 AATACTTATG GAACAGGCTC TTTCATCATC ATGAATACTG GGGAAGAGAT GCAGTTGTCT 7320 GAAAACAACC TCTTGACAAC CATTGGTTAC GGAATCAACG GTAAGGTTTA TTATGCCTTG 7380 GAAGGTTCTA TCTTCATCGC AGGAAGTGCT ATTCAGTGGC TTCGTGACGG TCTTCGCATG 7440 GTTGAAAATT CACCAGAATC TGAAAAATAC GCTCGTGATT CTCACAACAA CGATGAAGTT 7500 TATGTCGTTC CAGCCTTTAC AGGTCTAGGC GCTCCATACT GGAACCAAAA TGCTCGTGGT 7560 TCCGTCTTTG GTTTGACTCG TGGAACAAGC AAAGAAGACT TTATCAAGGC GACTTTGCAA 7620 TCTATTGCTT ATCAAGTGCG TGATATCATC GACACCATGC AAGTGGATAC TCAGACCGCC 7680 ATTCAAGTAC TGAAGGTGGA TGGTGGTGCA GCCATGAACA ACTTCCTCAT GCAGTTCCAG 7740 GCGGATATTT TAGGCATTGA CATTGCACGT GCTAAAAACC TGGAAACAAC AGCTCTAGGA 7800 GCGGCCTTCC TAGCAGGTTT GTCAGTAGGG TACTGGAAAG ACTTGGACGA GTTGAAACTC 7860

TTGAACGAGA	CAGGAGAACT	CTTTGAGCCA	TCTATGAACG	AATCTCGCAA	GGAACAACTC	7920
TACAAGGGCT	GGAAGAAGGC	TGTGAAAGCA	ACTCAAGTCT	TTGCGGAAGT	AGACGACTAA	7980
TACTGGCAGA	ATAAAGCGAT	TTATTTAGAA	AGTGTGTAAA	TATGGAATTT	TCAAAGAAAA	8040
CACGTGAATT	GTCAATTAAA	AAAATGCAGG	AACGTACCCT	GGACCTCTTG	ATTATCGGTG	8100
GAGGAATCAC	AGGAGCTGGT	GTAGCCTTGC	AGGCGGCAGC	TAGCGGTCTT	GAGACTGGTT	8160
TGATTGAAAT	GCAAGACTTT	GCAGAAGGAA	CATCTAGTCG	ТТСААСАААА	TTGGTTCACG	8220
GAGGACTTCG	TTACCTCAAA	CAATTTGACG	TAGAAGTGGT	CTCAGATACG	GTTTCTGAAC	8280
GTGCAGTGGT	TCAACAAATC	GCTCCACACA	TTCCAAAATC	AGATCCAATG	CTCTTACCAG	8340
TTTACGATGA	AGATGGAGCA	ACCTTTAGCC	TCTTCCGTCT	TAAAGTAGCC	ATGGACTTGT	8400
ACGACCTCTT	GGCAGGTGTT	AGCAACACAC	CAGCTGCGAA	CAAGGTTTTG	AGCAAGGATC	8460
AAGTCTTGGA	ACGCCAGCCA	AACTTGAAGA	AGGAAGGCTT	GGTAGGAGGT	GGAGTGTATC	8520
TTGACTTCCG	TAACAACGAT	GCGCGTCTCG	TGATTGAAAA	CATCAAACGT	GCCAACCAAG	8580
ACGGTGCCCT	CATTGCCAAC	CACGTGAAGG	CAGAAGGCTT	CCTCTTTGAC	GAAAGTGGCA	8640
AGATTACAGG	TGTTGTAGCT	CGTGATCTCT	TGACAGACCA	AGTGTTTGAA	ATCAAGGCCC	8700
GTCTGGTTAT	TAATACAACA	GGTCCTTGGA	GTGATAAAGT	ACGTAATTTG	TCTAATAAGG	8760
GAACGCAATT	CTCACAAATG	CGCCCAACTA	AGGGAGTTCA	CTTGGTAGTA	GATTCAAGCA	8820
AAATCAAGGT	TTCACAGCCA	GTTTACTTCG	ACACAGGTTT	GGGTGACGGT	CGTATGGTCT	8880
TTGTTCTCCC	ACGTGAAAAC	AAGACTTACT	TTGGTACAAC	TGATACAGAC	TACACAGGTG	8940
ATTTGGAGCA	TCCAAAAGTA	ACTCAAGAAG	ATGTAGATTA	TCTACTTGGC	ATTGTCAACA	9000
ACCGCTTCCC	AGAATCCAAC	ATCACCATTG	ATGATATCGA	AAGCAGCTGG	GCAGGTCTTC	9060
GTCCATTGAT	TGCAGGGAAC	AGTGCCTCTG	ACTATAATGG	TGGAAATAAC	GGTACCATCA	9120
GTGATGAÄAG	CTTTGACAAC	TTGATTGCGA	CTGTTGAATC	TTATCTCTCC	AAAGAAAAA	9180
CACGTGAAGA	TGTTGAGTCT	GCTGTCAGCA	AGCTTGAAAG	TAGCACATCT	GAGAAACATT	9240
TGGATCCATC	TGCAGTTTCT	CGTGGGTCTA	GCTTGGACCG	TGATGACAAT	GGTCTCTTGA	9300
CTCTTGCTGG	TGGTAAAATC	ACAGACTACC	GTAAGATGGC	TGAAGGAGCT	ATGGAGCGCG	9360
TGGTTGACAT	CCTCAAAGCA	GAATTTGACC	GTAGCTTTAA	ATTGATCAAT	TCTAAAACTT	9420
ACCCTGTTTC	AGGTGGAGAA	TTGAACCCAG	CAAATGTGGA	TTCAGAAATC	GAAGCCTTTG	9480
CGCAACTTGG	AGTATCACGT	GGTTTGGATA	GCAAGGAAGC	TCACTATCTG	GCAAATCTTT	9540
ACGGTTCAAA	TGCACCGAAA	GTCTTTGCAC	TTGCTCACAG	CTTGGAACAA	GCGCCAGGAC	9600

TCAGCTTGGC AGATACTTTG TCCCTTCACT ATGCAATGCG CAATGAGTTG ACTCTTAGCC 9660 CAGTTGACTT CCTTCTTCGT CGTACCAATC ACATGCTCTT TATGCGTGAT AGCTTGGATA 9720 GTATCGTTGA GCCAATTTTG GATGAAATGG GACGATTCTA TGACTGGACA GAAGAAGAAA 9780 AAGCAACTTA CCGTGCTGAT GTCGAAGCAG CTCTCGCTAA CAACGATTTA GCAGAATTAA 9840 AAAATTAAGA AAAAATAAAA GAGGTGGAGG GCAGCATTCC TTGTCGCCCG TCCCTTCTTT 9900 TTAATGGAGA CAGAAAGATG ATGAATGAAT TATTTGGAGA ATTTCTAGGG ACTTTAATCC 9960 TGATTCTTCT AGGAAATGGT GTTGTTGCAG GTGTGGTTCT TCCTAAAACC AAGAGCAATA 10020 GCTCAGGTTG GATTGTGATT ACTATGGGTT GGGGGATTGC AGTTGCGGTT GCAGTCTTTG 10080 TATCTGGCAA GCTCAGTCCA GCTTATTTAA ACCCAGCTGT GACCATCGGT GTGGCCTTAA 10140 AAGGTGGTTT GCCTTGGGCT TCCGTTTTGC CTTATATCTT AGCCCAGTTC GCAGGGGCCA 10200 TGCTGGGTCA GATTTTGGTT TGGTTGCAAT TCAAACCTCA CTATGAGGCA GAAGAAAATG 10260 CAGGCAATAT CCTGGCAACC TTCAGTACTG GACCAGCCAT CAAGGATACT GTATCAAACT 10320 TGATTAGCGA AATCCTTGGA ACTTTTGTTT TGGTGTTGAC AATCTTTGCT TTGGGTCTTT 10380 ACGACTTTCA GGCAGGTATC GGAACCTTTG CAGTGGGAAC TTTGATTGTC GGTATCGGTC 10440 TATCACTAGG TGGGACAACA GGTTATGCCT TGAACCCAGC TCGTGACCTT GGACCTCGTA 10500 TCATGCACAG CATCTTGCCA ATTCCAAACA AGGGAGACGG AGACTGGTCT TACGCTTGGA 10560 TTCCTGTTGT AGGCCCTGTT ATCGGAGCAG CCTTGGCAGT GCTTGTATTC TCACTTTTCT 10620 AGTTTATACT CTTCGAAAAT CAAATTCAAA CCACGTCAGC GTCGCCTTAC CGTACTCAAG 10680 TACAGCTTGC GGCTAGCTTC CTAGTTTGCT CTTTGATTTT CATTGAGTAT TAGAAAACAA 10740 TTATGTTGAT AGAGCTTGGG CAAGAGCCCA ATTTCAGCAA AAAATGAAGT AAATCTTCTC 10800 ATAATAAAAC GCATCATATC AAGCACGAAA ATTCCACGAG GTCAACTACA GTCAGAAAGC 10860 TGAACAACAA GCCAAAACGC CCAAAAAAGG CGGCAAAAAG CAAGCACCTG CAAGCAACGT 10920 GCCGAAATGG TCAAATCCTG ATTATGTCAA CGAATTAGAC CCAAAAATCG TTGATATGCT 10980 AGTAGAATTT CACAAGTCAC AAGGCACTTT GGAAACTCCC GAGGCGCAAG CAGAAATCGC 11040 CCAAAAACGT GAAGAAATCG AGCAAAGGAG AGCTGAGCTT GAGGGTAAAA AACAAGAGCT 11100 TTTGAACCGC TTGAACAAAT AGAGTTTCGC AAGTATTATG CTTACAAATT ACTTGAGCAA 11160 TTAACTAAAA TATAAACCCT GCCTTTATAT CTAGGCAGGG TTTATATTTT AGAAATTCAC 11220 GTAGGTTGTT, ACGGTTTTTA CATACCCAGT ATAGTTTGAG TTTCTATAGT ATTCAGTGAT 11280 AAACTTCCAT TTTCTTTGAG CAACATGGAT ATAAGTACTT GTTATGTAGT ATGGATATGG 11340 GCTTTGTGAA TCCAAGTAAG ACTGATAAGC TTGTATACCA AAATATGCTC CACCAATTAT 11400

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TGCACCCCAT	GGACCCCCCA	ATAAAGCACC	TATCCTACCA	ATCATATAAC	TGATTCCAGC.	11460
ACCAGTCATG	AAGTTAGCGA	ATGTGTTAGC	TTGTTTATTC	CCATGTATTG	TGTTGACGTA	11520
аттссаааса	TTAGGATCGT	ATGATCTAAA	AGATATATTT	AGGTCGATTT	CATTCTTTTG	11580
ATAAGCCATA	TAAAATGCCC	CATTGATATA	GACGCCGTCA	GCACGTCGTT	CAATAGTGTC	11640
TACACTTCCA	TCTGGATTGA	CAACCTCAAG	AACTTCATCG	СТТААААТАТ	TTACTTGCGT	11700
ATCTCCGAAC	CGCACTGATG	AGCCATTCTC	AAACTGAGCC	TCACCAGATA	CAACTTTAGA	11760
GTTTGCCGAT	AAGCTATCAT	CAGCAAAAAC	AAACAAGCGA	CGGGGAAATG	CTAGACATAC	11820
AGAAAACAGA	CATAACTAGC	AAACACATGC	ATTTAAACAT	CTTAGACATA	ACGGAAACTC	11880
CTTTGTATTT	TTGATTTTT	TCAACTTTTA	TTATACAATA	AAACCAAATA	AAAAGAAAGC	11940
GGTAACAATA	TGCTTAATGC	GAAAATTTTT	TATATATTTT	TATGTTTGAT	CGTTATCGAA	12000
ACTACAGGCT	TGTTGTTGTT	GAAAAGAGGT	CTCGAAATGG	GTTATTTAGA	CACAGAAGCT	12060
ATTATCCTCG	CAGTTTTTTC	ATTTGCTTTT	TACAACCTAT	GTTCATTCGC	TTGGGTCTGC	12120
тстасаатаа	AAAACAATAA	ААААТАААТА	GACGTATTTT	CAAAAAAAAC	maAATGCATA	12180
ITTATATTAG	CAAAACGACG	ATTTAAATCG	TCGTTTTTTT	GTAGTACGAC	GGGCATGTCG	12240
<b>FATATCTGAG</b>	GTGTAAGTCC	TCAGCCTGAC	TATCGTGAGG	TAGCAGGGAG	AGGAAGGGAT	12300
AGCGAAATCG	TGGCTCTACG	AACAGGAACG	TGATAGTAAG	GCGTATATAG	CGGATAAGGA	12360
GGCTTCAAAC	TCTAAAGTCC	AAAAAGGTAG	TCGTAACCTA	TATGTGTAAA	TCACGAGAGT	12420
AATTGAATTC	GGACTAAGGT	TTGTGTGAAA	AAGATAAATC	TTTCTAGAGT	CTAAAGACTC	12480
<b>FGCGTCAGAT</b>	TTCCTATTTT	CACTGTAACC	TTTTAACGTC	CTCATATCTT	GTATAAACGA	12540
GGAAAGATGT	ACGACTTATC	CCGTGAGGTT	TCATGAGCGT	GAAAGCGTAG	TAACAACGAA	12600
TCATGAGAAG	TCAGCCGAGC	CCATAGTAGT	GAGGAAACTT	CCGTAATGGA	AGTGGAGCGA	12660
AGGGG						12665

### (2) INFORMATION FOR SEQ ID NO: 135:

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 5305 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double
   (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 135:

CGCTAATCAC TACAATCATT TTATTGTACT TTTTCACTCT CAAGAAAAGC AAGAAGTATT

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CATTTTAGTT	TCATTTAGTA	TTATTTTGCA	TACCTAAAAT	ACAGTAAAA	ATCAGTCATC	120
TTGGTATGCT	CCTGCTTTCA	CTATTCAACA	CGTTTTTGAC	TTATACTAGG	CTCATTTCCA	180
AAAGCATTAT	ataatagtga	TATGAAACCA	ACTAAACTAA	ACAAGAAATA	TAAGCAATAA	24
AAATTCGTTT	AAAAGATCTT	ACTAAAGCTA	ATACTAAATA	<b>ААААТАААА</b> G	AGTAAACTAG	300
GAAGTTTATT	TCAAACAACC	TAAAATACTG	ATTTTCGGCT	GAAGATAATA	CTGGAGTGCA	360
AATTAATGGG	GTTATAATAA	ATAGCTGATA	GCTTGTGTTG	GTTTTGGATT	TTTTAAGAGT	420
AGATGAGTAT	TAAAACTATA	AGGAGGACGA	AGGTGGCTAA	AAATTTAAAA	TTAAAATTAG	480
CTCGGGTAGA	GCGTGATTTA	ACACAAGGTC	AACTGGCAGA	GGCTGTCGGG	GTGACACGCC	540
AGACTATTGG	TTTAATAGAG	GCGGGAAAAT	ACAATCCCAG	TCTCTCGCTC	TGCCAGTCTA	600
TTTGCAGATG	TTTAGGGAAA	ACCCTAGACC	AACTATTTTG	GGAGGAAGAA	GATGAAAAAT	660
AGATTTTATT	ATTCTCAATT	ACTAGACGAA	AGAGAAGAAC	AACTGTTCAA	TAAAGCGGGC	720
TCTGAAAGTT	TCTATATCTG	CATTGCTTTG	TCGCTCCTAT	CTTATATCAT	TTCAGTATTA	78
GCACCAAGCC	TTTTTAATTC	TAATATGCTG	CTAATCGTTA	TCATCATAGG	GACATTTTAC	84
TTTTTCAATC	GTGCCCGTTA	TCTGGGAGTG	ACCTACTATG	GTCGTTTTCA	TTTTACGATT	900
TTGGGTTGTT	TTTTCCTAAC	CTTGGCTATT	ACGGCTCTTT	TGATGTTGCA	GAATTATCAA	. 960
TTCAACATAG	AAATTTATCA	GCACAATCCT	TTGAATTTTA	AATACCTGTC	TGCTTGGGTC	102
ATTACTTATA	TCATTTACCT	TCCGTGGATC	TTTATTGGCA	ATCTTGGTCT	TAAGAGCTAT	1086
GGCGAATGGG	CTCAGAAAAA	ATTTGAACAA	GATATGGATG	AATTGGAGAG	TGGAGAATAG	1140
CTTGTTACTC	TTTTCTCAAT	CCAGCTAAAA	TGTGATATAA	TAGTACTAAT	TTATTGGAAT	120
ACATGAAAGT	TCTTGAAAAT	TTTCATGGGT	TTCTAGCTAA	GGAAGTAGGA	AAAGTATGTA	1260
TCCAGATGAT	AGTTTGACAT	TGCACACGGA	CTTGTACCAG	ATCAACATGA	TGCAGGTTTA	1320
CTTTGACCAA	GGGATTCACA	ATAAGAAGGC	GGTCTTTGAG	GTGTATTTCC	GCCAACAGCC	1380
TTTTAAGAAC	GGCTATGCGG	TTTTTGCAGG	TTTAGAAAGA	ATTGTGAACT	ATCTTGAAGA	1440
CTTGCGTTTT	TCAGATAGTG	ATATAGCCTA	TTTGGAGTCG	CTTGGTTATC	ATGGGGCGTT	. 1500
CTTGGATTAC	CTTCGCAATT	TCAAGTTGGA	GTTGACCGTT	CGTTCTGCCC	AAGAAGGGGA	1560
TTTGGTTTTT	GCTAATGAAC	CGATTGTGCA	GGTGGAAGGA	CCTCTAGCCC	AATGTCAGTT	1620
GGTCGAAACG	GCTCTTTTGA	ACATCGTCAA	CTACCAGACT	TTGGTGGCGA	CGAAGGCAGC	1680
TCGTATTCGT	TCGGTTATCG	AAGATGAACC	CTTGATGGAG	TTTGGGACAC	GTCGGGCTCA	174
AGAAATGGAT	GCGGCCATCT	GGGGAACACG	CGCAGCTGTG	ATTGGTGGCG	CCAATGGAAC	180
CAGCAACGTG	CGTGCGGGTA	AGCTCTTTGA	CATTCCTGTT	TTGGGAACCC	ATGCCCATGC	186

CTTGGTACAG	GTTTATGGCA	ATGACTATGA	AGCTTTCAAG	GCTTACGCTG	CGACCCACAA	1920
AAATTGTGTC	TTTCTTGTGG	ATACCTATGA	CACCCTTCGC	ATCGGTGTAC	CAGCTGCCAT	1980
TCAGGTGGCG	CGTGAGCTGG	GTGATCAGAT	TAACTTTATG	GGTGTGCGGA	TTGACTCTGG	2040
GGATATTGCC	TACATTTCTA	AGAAAGTCCG	TCAGCAACTG	GATGAGGCTG	GATTTACAGA	2100
GGCTAAGATT	TATGCTTCTA	ATGATCTAGA	TGAAAATACC	ATCCTTAACC	TCAAGATGCA	2160
AAAGGCCAAG	ATTGATGTCT	GGGGTGTGGG	TACCAAGCTG	ATTACAGCCT	ATGACCAGCC	2220
GGCTCTTGGG	GCGGTTTACA	AGATTGTTGC	AATCGAAGAT	GAAACTGGTC	AGATGCGCAA	2280
TACGATTAAG	CTGTCTAATA	ATGCTGAAAA	AGTTTCTACG	CCAGGTAAGA	AGCAGGTGTG	2340
GCGCATTACC	AGTCGTGAAA	AAGGCAAGTC	AGAAGGCGAC	TATATCACTT	ATGATGGTGT	2400
GGATATTAGC	GACATGACAG	AAATCAAGAT	GTTCCATCCG	ACCTATACAT	ACATCAAGAA	2460
GACGGTTCGT	AATTTTGATG	CCGTTCCTCT	CTTGGTGGAT	ATCTTCAAAG	AAGGAATATT	2520
AGTTTACAAC	TTGCCTAGTT	TGACTGACAT	TCAGGATTAT	GCCCGTAAGG	AATTTGACAA	2580
GTTGTGGGAT	GAGTATAAGC	GTGTGCTCAA	TCCGCAGCAC	TATCCAGTGG	ATTTGGCGCG	2640
TGATGTATGG	CAAGATAAGA	TGGACTTGAT	TGATAAGATG	CGCAAGGAAG	CCCTTGGTGA	2700
AGGAGAAGAA	GAATGAGTTT	GCAAGAAACG	ATTATCCAAG	AGCTGGGTGT	CAAACCAGTG	2760
ATTGATGCCC	AGGAAGAAAT	CCGTCGTTCT	ATTGATTTCT	TAAAAAGATA	TCTGAAAAAA	2820
CATCCCTTCC	TAAAAACCTT	TGTACTAGGG	ATTTCTGGGG	GACAAGACTC	AACCTTGGCA	2880
GGACGTTTGG	CGCAATTAGC	TATGGAAGAA	CTGCGAGCTG	AAACGGGAGA	CGATAGCTAC	2940
AAATTTATCG	CTGTCCGCCT	GCCATACGGA	GTGCAAGCTG	ATGAAGCAGA	TGCTCAAAAA	3000
GCCCTAGCCT	TCATCCAGCC	AGATGTCAGC	TTGGTTGTGA	ATATCAAGGA	ATCAGCTGAT	3060
GCCATGACAG	CTGCAGTTGA	AGCGACAGGT	AGTCCTGTTT	CAGACTTCAA	CAAGGGGAAT	3120
ATCAAGGCAC	GTTGCCGTAT	GATTGCTCAG	TATGCCCTTG	CTGGTTCCCA	TAGCGGAGCG	3180
GTCATTGGAA	CAGACCACGC	CGCGGAAAAT	ATCACAGGTT	TCTTTACCAA	GTTTGGTGAC	3240
GCCGCTGCGG	ATATTCTCCC	TCTTTACCGC	CTCAATAAAC	GCCAAGGAAA	ACAGCTCTTG	3300
CAGAAACTTG	GCGCAGAGCC	AGCCCTTTAT	GAAAAAATCC	CAACGGCAGA	CCTAGAAGAA	3360
GATAAACCAG	GCCTAGCTGA	CGAAGTCGCA	CTTGGAGTCA	CCTACGCAGA	GATTGACGAC	3420
TACCTAGAAG	GCAAAACAAT	CAGCCCAGAA	GCTCAAGCGA	CCATTGAAAA	CTGGTGGCAC	3480
AAAGGCCAAC	ACAAACGCCA	CTTACCCATC	ACCGTATTTG	ATGACTTTTG	GGAGTAAAAA	3540
GGTCCGGGG	ACCTTTTTAG	CTTCTTGCCC	TGAAATTAAA	AAGCAAGAAA	AACCTCCACT	3600

GGAGGTTTTC	AGCCTCTCAT	CTTGAAATAA	918 GAAAGTGAGA	GAAGGTCTGG	GGGATCTTGA	3660
ACCCCGAGTT	TAGAAATAAG	AAAATGAGGC	AGATTCAGTA	ACTCGAAGAG	TTCGATTTCA	3720
TCGTCTTACC	CCTGCAACGA	TGACTAGGTT	TGAAAAAGCT	TGCTAGAGCG	CATTTCAAAC	3780
CAGGCAGCAA	CTGCGTCAAG	AAATTAGAAG	ACAAACTCGT	TTTCTAGCTG	TTACTGAGTT	3840
GAGCCTTTTT	ACTACGAGTA	TAGAAATAAG	GAAGTGAGGT	AGCATCATGA	AATCTATCGG	3900
TACGCAAATA	TTACAGACAG	AACGTTTGAT	TTTAAGAAGA	TTTGTGGAGA	GTGATGCAGA	3960
AGCCATGTTT	CAAAATTGGG	CTTCATCCGC	TGAGAATCTG	ACCTATGTTA	CCTGGGATCC	4020
CCATCCTGAT	GTCGAAATCA	CTCGAAACTC	GATTTGCAAT	TGGGTTGCTT	ССТАТАСТАА	4080
TCTCAACTAT	TATAAATGGG	CCATTTGTCT	AAAAGAAAAC	CCAGAGCAAG	TAATAGGAGA	4140
TATCAGCATT	GTTAAGATAG	ACGAGGCTGA	TTTAAGCTGT	GAAATTGGCT	ATGTGTTAGG	4200
CAAGGCTTAC	TGGGGAAATG	GTATGATGAC	AGAGACTTTG	AAAGCTATCT	TGGACTTTTG	4260
TTTTACTCAA	GCAGGTTTTC	AAAAGGTCAG	AGCACGTTAT	GCCAGTCTCA	ACCCAGCTTC	4320
AGGTCGTGTC	ATGGAAAAGG	CTGGAATGTC	CTATCTACAA	ACCATTGTTA	ATGGTGTAGA	4380
GAGAAAAGGC	TATCTTGCGG	ATCTTATTTA	TTATGGTATA	AGTAGGGAAG	AATGTTGAAT	4440
TCTATTTTCT	GTTTCTATCG	AAGTCAACTA	TTTATTGTAA	ТАДТАДТАТА	TAGCATTCCA	4500
AGTTTATTTG	AAACTTTAAA	ATAGCATATT	GATTAGTACA	AGACAGATGT	TCTAGTTCCT	4560
TCTTTAATCT	GGTTTAGTGT	TAGTTAAAAA	ATCGCTTTAA	GCTTGTAACT	AAGAGGGAGC	4620
TAATCGACTA	GATTCTCCAG	CCGAACAGGI	GGTAATGTAC	TTTTTATAGT	GTAATCCTAG	4680
CTGTTGTTAA	ATTTAAAATA	GAATCCTCTA	TCGAGTTAGG	GAATTAAATT	CAACCAATTT	4740
TATTÇATGTT	TTTTCTATCA	AATTATCTAA	ТАТТААААТА	GTCTCATTCT	GATGAGAAAA	4800
CTATTCCCAA	ATCATTCATA	CCTCTCTCAA	CTAGATGTAA	СТТАСААААС	CCCTGACCTC	4860
ATGAGCCACT	TTCTTCCTCC	TCATGAGGTC	AGTTTTACTT	TCTGCTGTTC	CAGTATCGTT	4920
TTTCCTCGCT	AGATTTCCTC	AAAAGGCAG	ACTCCTCCCT	TGGTGCGTCA	CACGATTTTT	4980
TCATCTCGAC	TGTTCTTTAA	TGCATCATTA	ACGACGCTTT	TCTTCTAGGT	GGTTCATAAG	5040
GAACAGGAAG	ATTCAGGTTG	ACTTTTCTAA	TCCTAGAATA	AAGTGCTGAA	AACAATTCGG	5100
AATAGGCATA	GAGACTAGAC	AATTTGAGGA	GCTGCTTGCG	TCCTGTTCGA	ACACATTTŢC	5160
CCACCACGTG	AAGAAAAAGA	TGGCGGAAGC	GTTTGATTGT	TAAAGTTTGG	AAGTCACCTC	5220
CAGCTAGATG	TTTGAGAAAA	AGATAGAGAT	TGTAGGCGAT	ACAGCTCATC	ATCATACGAA	5280
CTTCGTTTTT	GATTAAGGTT	GAACT				5305

<sup>(2)</sup> INFORMATION FOR SEQ ID NO: 136:

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(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 3964 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 136:

TGGCAGCTCG	TCGTCGTAAA	GGACGCAAAG	TTTTGGCTGC	ATAATCCAAA	CGAATTCTAT	60
CAAAAATCAG	TAGGAACTCG	AGTCTACTGA	TTTTTATTT	TGTAAAAAAG	TTCAGTAGAT	120
GCAAATGGAT	TCGGAAGCGA	TGTTACAGTA	GATTGAAACT	AGAATAGTAC	ACCTCTGTTT	180
CTAAAACATT	GTTAGAAATC	GATTTGACTG	TCCTGATCGA	TTTGTCCTGT	TATTATTTA	240
TTTTACTATA	AAGTTGAAGT	AGGTGGAGAT	GGTACAGCAA	CAATCGTCTT	TAAAGATGGT	300
TCAGCTATTA	CAATTCCAGG	AAATCAATTG	GTAGCACAAG	ATCCAAAAGC	ACAAGATAGC	360
ACTAAACTGA	CTGCTGAAAA	ATCAACTGTT	AAAGCACCTG	CTCAAAGAGT	AGATGTAAAA	420
GATATAACTC	ATTTAACAGA	TGAAGAAAAA	GTTAAGGTTG	CTATTTTACA	AGCAAATGGT	480
TCAGCATTAG	ACGGAGCGAC	AATCAATGTA	GCTGGAGATG	GTACAGCAAC	AATCACATTC	540
CCAGATGGTT	CAGTAGTGAC	GATTCTAGGA	AAAGATACAG	TTCAACAATC	TGCGAAAGGT	600
GAATCTGTAA	CTCAAGAAGC	TACACCAGAG	TATAAGCTAG	AAAATACACC	AGGTGGAGAT	660
AAGGGAGGCA	ATACTGGAAG	CTCAGATGCT	AATGCGAATG	AAGGCGGTGG	TAGCCAGGCG	720
GGTGGATCAG	CTCACACAGG	TTCACAAAAC	TCAGCTCAAT	CACAAGCTTC	TAAGCAATTA	780
GCTACTGAAA	AAGAATCAGC	TAAAAATGCC	ATTGAAAAAG	CAGCCAAGGA	CAAGCAGGAT	840
GAAATCAAAG	GCGCACCGCT	TTCTGATAAA	GAAAAAGCAG	AACTTTTAGC	AAGAGTGGAA	900
GCAGAAAAAC	AAGCAGCTCT	CAAAGAGATT	GAAAATGCGA	AAACTATGGA	AGATGTGAAG	960
GAAGCAGAAA	CGATTGGAGT	GCAAGCCATT	GCCATGGTTA	CAGTTCCTAA	GAGACCAGTG	1020
GCTCCTAATG	CTGCTCCTAA	GACAACAAGT	GCACCGCAAG	CAACTGCAGG	AACAATGCAA	1080
GATGTTACCT	ACCAGTCACC	TGCTGGCAAA	CAATTACCTA	ACACAGGTTC	AGCATCAAGT	1140
GCAGCACTTG	CTAGTCTTGG	TCTAGTGGTG	GCAACAAGTG	GTTTTGCTTT	GCTAGGAAGA	1200
AAGACTAGAC	GTAGAAAATA	GAACAGCTAG	AAAATTCTAT	ТСТСТАСТТА	AAGTTAGATT	1260
ATAAGGGGGA	TTTTGAGAAG	TCATCAATCC	TAGTGATGGG	TGAGAAAAGT	GAGAACCCAA	1320
GATAATCACA	TACTTTAGCT	GAATAGGAAT	ATTCTATCAA	TGTAGCCAAT	CTCTTCTGTC	1380
TCTAACTGTG	GAATAGGAGA	TGGGCAATAT	CGGATAGAAA	AGATAGCAGA	ATAGCTCTCT	1440

A'	PTGAAGAGA	GGAGGGGAAA	CCGAAAAATT	920 AGGTGCCCCT	ССТСТТТТТ	GGTATAATAG	1500
A	AGATAGAAA	ACGAGGTTAG	AAGAGATGAT	TTTTGATACA	CATACACACT	TGAATGTAGA	1560
A	GAATTTGCA	GGTCGTGAGG	CAGAAGAAAT	TGCCTTGGCT	GÇTGAGATGG	GTGTGACACA	1620
G	<b>ATGAATATT</b>	GTTGGTTTTG	ATAAACCGAC	GATTGAGCAT	GCCTTGGAGT	TGGTAGATGA	1680
G'	PATGAGCAG	CTCTATGCGA	CTATTGGTTG	GCATCCTACA	GAAGCTGGTA	CTTATACAGA	1740
G	GAAGTTGAG	GCTTACTTGT	TGGATAAGTT	AAAACATTCC	AAGGTTGTGG	CTTTAGGTGA	1800
A	ATTGGCTTA	GATTACCATT	GGATGACAGC	GCCCAAAGAG	GTGCAGGAGC	AGGTTTTTCG	1860
C	CGTCAGATT	CAGCTATCTA	AGGACTTGGA	TTTGCCTTTT	GTTGTCCATA	CCCGTGATGC	1920
G	TGGAAGAT	ACCTATGAGA	TTATCAAGAG	TGAGGGCGTT	GGTCCTCGTG	GTGGTATCAT	1980
G	CATTCATTT	TCAGGGACGC	TTGAGTGGGC	AGAGAAGTTT	GTGGATCTTG	GTATGACCAT	2040
T	<b>PCCTTCTCA</b>	GGAGTGGTGA	CTTTTAAGAA	GGCAACTGAC	CTCCAAGAAG	CAGCTAAAGA	2100
G'	PTACCTTTG	GACAAGATGT	TGGTGGAAAC	AGATGCGCCT	TACTTAGCAC	CTGTACCCAA	2160
G	CGTGGTCGT	GAAAATAAAA	CAGCCTATAC	TCGCTATGTG	GTCGACTTTA	TCGCTGACTT	2220
G	CGTGGTATG	ACGACAGAAG	AGCTGGCGGT	AGCAACGACT	GCAAATGCAG	AACGAATTTT	2280
T	GACTGGAC	AGCAAGTAAT	GAAAGAGAAA	ATTTCTCAAG	TTATCGTGGT	TGAAGGCCGT	2340
G	ATGATACGG	TCAATCTCAA	ACGTTATTTC	GATGTGGAGA	CCTATGAGAC	TCGAGGTTCT	2400
G	CCATCAATG	CTCAGGATAT	AGAGCGGATT	CAGCGCCTGC	ACCAACGTCA	TGGAGTCATT	2460
G'	<b>PCTTTACAG</b>	ACCCAGATTT	TAATGGGGAA	CGGATTCGGC	GCATGATCAT	GATGGTCATT	2520
C	CAACAGTTC	AGCATGCCTT	TCTCAAGCGA	GATGAAGCTG	TTCCCAAGTC	CAAGACCAAG	2580
G	GCGTTCTC	TGGGAATTGA	GCATGCCAGC	TATGAAGACC	TGAAAACGGC	TCTAGCTCAA	2640
G'	rgacagaac	AATTTGAACA	TGAGAGTCAG	TTTGACATTA	GTCGTAGCGA	TTTGATTCGC	2700
C.	PTGGTTTTC	TAGCAGGGGC	AGACAGCCGT	AAGCGTAGAG	AATATCTCGG	AGAGACTCTC	2760
C	GAATCGGCT	ATTCCAACGG	CAAGCAACTC	CTCAAACGCC	TAGAGTTGTT	TGGGGTTACT	2820
T'	PGGCAGAAG	TGGAAGAAGC	TATGAAATCT	TATGAGTAGG	AAAGATGTAG	CCGTTACAAT	2880
T'	PTTTAAGTT	TCACAGTATT	TTTCGAAGCA	GGTAGAAGAG	GAGGCGTCTG	ATGTTAATTG	2940
G'	ГСААААААТ	TAAAGAGATT	CGGATAGAAA	AAGGAATTAG	TCGTCCAGAT	TTTTGTGGAG	3000
A'	rgagcaaga	ACTGACAGTT	CGTCAACTGT	CGCGAATTGA	AAGTGGAGCT	TCGCAACCGA	3060
G'	TTTGCCCAA	GTTAGACTAT	ATTGCTCGCC	GGCTAGGAGT	TCCAGTTTAT	AGCCTTATGC	3120
C	GATTTTTC	AGCTCTTCCT	TCTGCTTATT	TAGAATTGAA	ATACCAGATT	TTACGTGAAC	3180
C	AATCTATGG	TAAAGAAGAG	GAGTACGATA	AGAAGGAAGC	GTGTTTGGAA	GAGATTTATA	3240

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AAACATACTT	TGATAATCTT	CCTAAAGAAG	AACAATTAGC	ATGTGAAGTA	TTGCAGGCGT	3300
GTTTGGATAC	TTCTAGAACT	AGAAGGCCTG	AATATGCAGA	GTTAATACTT	GAGGAACATA	3360
TGCCTCAGAT	TATAGAAAAA	GAAGCTTATT	CAATAAATGA	TATGTTGTTG	ATTCGTTTGT	3420
ТТТТТАТСА	AATGCTCATT	AGAAAAGATC	TTGCCAAATT	ТАТАААТСАА	ATCGAAAAGC	3480
TAATGCTCTT	TCTTTTGGAA	CAGAAGAAGG	ТААСТСАААТ	AGAGAATTAC	тттатаатта	3540
GAGATACTCT	TATTTCAGGA	ATGTGTTGTC	TTGAAAAGGT	AGGAGTAACT	GATTGTTTTA	3600
ATGATTATCT	ATCGTGTTTA	CAAGAAATTA	TGGATAAAAC	TCAAGATTAT	CAAAAGAAAC	3660
CTCTTGTATT	TATGTTTTTG	TGGAAGCAAG	CATTAAGAGA	AGAAAGAGAT	TTTAGTTTAG	3720
CTGAATCATT	TTATCAGTCT	TCTAAAACAT	TTGCGCAGCT	AATTGGAGAT	GAATTTCTAG	3780
TAAAGAAATT	GACAGAGGAA	TGGCAAGAGG	ATGTCAAAAA	AATATTTATA	ACATAGTGAA	3840
TCAGTGACAA	AGATGTCCTT	GTCCTCGTAT	CAAAACAGTT	CTAAAGTTCG	TCTTTAGGGA	3900
TGTTTTTTA	GATATAAGCT	AAAAATGACA	CGAAATGGTT	AGATTTTAAG	GACATTGATG	3960
TCCG .			4	•		3964

## (2) INFORMATION FOR SEQ ID NO: 137:

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 12666 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double
   (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 137:

TGAGACCGTT	ATTTGTATTA	GGGAAATGGG	TATCTATTTT	TAATGCTGTG	GGGATTTTGA	60
TTGTTTCTAT	TATTCAAACC	AAAAGCTTGT	CAGGTATTGG	AGCAGGATTG	TTTAATCTAT	120
ATAACATTTC	ATCTTATATA	GGTGATTTAG	TTAGTTTCAC	TCGATTGATG	GCATTAGGAT	180
TATCTGGAGC	AAGTATAGCA	TCAGCTTTCA	ATTTAATTGT	TGGTTTGTTT	CCGGGAATAT	240
TGGCTAAACT	GACAATTGGA	TTAGTATTAT	TCATTCTTTT	ACATGCGATC	AATATTTTTC	300
TATCGTTACT	ATCAGGATAT	GTTCATGGAG	CACGTCTGAT	atttgttgaa	TTTTTTGGTA	360
AGTTTTATGA	GGGTGGAGGA	AAACCATTTC	AACCTTTGAA	GGCTTCTGAG	ATATATAAA	420
AGGTTATTAC	AAAGAATTAA	TGGAGGATAT	ATATAATGGA	ACATTTAGCA	ACTTATTTTT	480
CAACCTATGG	AGGAGCTTTC	TTCGCTGCAT	TGGGAATTGT	ATTGGCGGTT	GGATTAAGCG	540
GTATGGGGTC	TGCTTATGGA	GTTGGTAAGG	CTGGGCAATC	TGCCGCAGCT	TTACTGAAAG	600

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AACAGCCTGA	AAAGTTTGCC	TCAGCTTTGA	TATTGCAATT	ATTGCCCGGA	ACACAAGGAT	. 660
TATATGGTTT	TGTTATTGGA	ATTTTAATTT	GGTTGCAATT	AACTCCAGAA	CTTCCTTTAG	720
AAAAAGGCGT	TGCTTATTTC	TTTGTAGCTC	TTCCAATTGC	TATTGTAGGA	TACTTTTCAG	780
CTAAGCATCA	AGGAAATGTA	GCAGTAGCGG	GAATGCAAAT	CTTGGCTAAA	AGACCAAAAG	840
AATTCATGAA	GGGAGCAATT	TTAGCTGCCA	TGGTAGAAAC	CTATGCAATT	CTTGCTTTTG	900
TCGTATCATT	CATTTTGACC	CTTCGTGTAT	AAGAAATAAA	TTTGCAATTC	AAAGGAGGTG	960
TCTAAATGAG	CAATTTAGAA	AACTTACGAG	AGTCTGTTAT	TGAACAAGCT	CATGAAAAAG	1020
GGCGTATGAA	ATTATTGGAT	TCCAAAAAGA	AGATTGATGA	TGAATTTGAA	ATGCAAAAGT	1080
CGCTCATTAT	AAAGAAAAA	GAAGCTGAAC	ATGAACGAAA	GTTAAAAGAA	TTGCAACAGA	1140
AATATCAAAT	AATTTTTCAA	CAATTAAAAA	ATAAGGAACG	CCAATCAACG	TTAGTATCAA	1200
AACAGAAAAT	ATTAAAAGAA	CTTTTTCAAT	CTGCTTTACT	AGAAATGGAA	TCTTGGAGTG	1260
CAGATAAAGA	AATGGAGTTC	ATCTATCGAA	TTCTGGAACG	ATATTCACAA	CAAGAGGTCA	1320
TAGTAACCTT	TGGGGAACGG	ACTTTAGCTA	AATTCAATTT	GGAACAATTA	GAGAAATTGA	1380
AATTCTCTTT	TCCAAATTAT	TTATTTAGTG	AACAACCTAT	CTCAAATGAA	TCAGGCTTAC	1440
TTATTTCAAT	AGGTAAAATÎ	GATGATAACT	ATTTGTATAA	AACATTAATT	GGATCGATTT	1500
CTAAGGAAGA	AAGTTCAAGT	ATCGCAAATC	TATTTTTAT	CAATTAAGGA	TGAAATTGGT	1560
TAATCCTTCT	TAGAAATTTG	GAGTATTCCA	ATAAAATTAG	AAAGGTATTT	TATGGATACT	1620
AATCTTTTTT	CAAAAATAAA	TACGACGATT	TCGGTAAAAG	AAAACGATTT	TATTACAGAA	1680
GAAAAATTTC	TATTAAAAAA	ACAATCCAAA	GATACGGAGA	CATTGGCATT	TATCTTAGAA	1740
TCAACTCCCT	ATCATTTATC	GATTGACATC	TTAGAAGATC	CTAGTCAGAC	AGAGATTTCG	1800
CTAATGACAA	AATTAGTCAA	TGATTATAGA	TGGGCCTATG	CTGAAAGTCC	GTCTGATATA	1860
ATTGTGACTT	TATTTGCTTT	ACGATATGTT	TATCATAATA	TCAAAGTTTT	ATTAAAATCT	1920
AAGGCGGCAA	TTAAGAAAGA	TTTTTCTAAA	TTATTAATTC	CAATAGGGAT	TTTTGATATA	1980
GAAAGTTTAA	AACATTTAGT	TTCTTCCTTA	CATTCAGATA	CACTTCCTGA	TTTTATGGTT	2040
CGTGAAGTAG	AATCAATTTG	GAATGAGTAT	GAAACTTTTA	ATAATATTCG	TGTACTTGAT	2100
GTCGGAGCTG	ATCTAGCATA	TTTTAAACAT	CTGAAACTTT	TATCTAATGA	GTTAGATGAG	2160
GTACTGTCTC	AGGTTATTGT	CGAAATGATT	GACTTTTATA	ATATTATTAC	TGTAAAACGT	2220
GGTTTATCTC	AAAATAAGAG	TCATGGGGAT	ATTTTACAAT	TACTTTCAGA	TGAAGGAAGT	2280
ATTTCTGCTA	AAGAATTTAT	ATACATTGTA	GAAAATCAAG	AAATATTTGT	GTGGTTCAAT	2340
ААААТАААТС	CAAGCTTAGA	<b>ТТСААТСТТТ</b>	<b>ТСААСТТАТ</b> G	AATTGAAGAT	GCAGGACGCA	2400

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ACAATTTCAT	CTTCTGAGTT	AGAATTTTTA	TGTGATTTAC	TATTGTATAA	AACTTTAGAT	2460
CAAGGAAGGT	ACAATGTAGA	GGGGCCGTTA	GTTCTTGCTA	GATATTTATT	GGGATGTGAG	2520
TTTGAAGTAA	AGAATCTCAG	AATGATCATA	TCAGCTCTTC	AAAATACAAT	TCCCTTTGAA	2580
TCAATAAAAG	AAAGGATACG	CCCACATTAT	GGAAGCTAAT	AAGTATAAAA	TTGGCATAAT	2640
TGGTAGCCGT	GATATTATTT	TACCATTTAG	CATGATTGGG	TTTGATATAT	TTCCTGCCTA	2700
CCAAGAACAA	GAAGCTATAA	ATACACTAAG	AAAATTAGCT	CAATCTGATT	ATGGTGTCAT	2760
TTATATCACT	GAAGACATTG	CTTCAATGAT	ATTAGATACA	ATTCGCCATT	ATGATTCCCA	2820
AGTTGTGCCT	GCTATTATTT	TATTACCGAC	ТСАТАЛАСАА	GGTTTAAATT	TAGGATTAAA	2880
ACGTATAGAG	GATAATGTAG	AGAAAGCAGT	AGGACACAAT	ATTTTATAAT	AATGTACAAA	2940
ATTGTCTGTA	ATATTATTCT	ATAATTTTTG	GACTTAGTAA	GGAGAATAAC	TTTGACTCAA	3000
GGGAAGATTA	TAAAAGTATC	GGGACCTCTA	GTTATTGCAT	CAGGTATGCA	GGAGGCTAAT	3060
ATTCAAGATA	TTTGCCGTGT	AGGTAAGCTA	GGGTTAATCG	GTGAAATTAT	TGAAATGAGA	3120
AGAGATCAGG	CATCTATCCA	AGTCTATGAA	GAAACATCTG	GTCTTGGTCC	GGGAGAACCT	3180
GTTGTTACAA	CTGGAGAACC	TCTCTCGGTT	GAATTAGGGC	CAGGATTGAT	TTCTCAAATG	3240
TTTGATGGCA	TACAACGCCC	ATTAGATCGA	TTTAAATTGG	CTACTCATAA	TGATTTTCTA	3300
GTTCGTGGGG	TAGAAGTTCC	AAGTTTGGAT	AGAGATATTA	AGTGGCATTT	TGATTCCACT	3360
ATAGCAATTG	GTCAAAAAGT	GAGTACGGGT	GATATTCTTG	GAACTGTCAA	GGAAACCGAG	3420
GTAGTTAATC	ATAAAATTAT	GGTTCCTTAT	GGAGTATCTG	GAGAAGTCGT	TTCTATTGCA	3480
TCTGGCGATT	TTACAATTGA	TGAAGTTGTA	TATGAAATAA	AAAAATTGGA	CGGTAGTTTC	3540
TATAAAGGAA	CGCTTATGCA	AAAATGGCCT	GTCCGCAAGG	CGCGTCCTGT	TTCTAAACGT	3600
TTAATTCCAG	AAGAACCATT	AATCACAGGT	CAACGAGTTA	TTGATGCATT	CTTTCCAGTA	3660
ACCAAAGGGG	GAGCTGCAGC	AGTTCCTGGA	CCGTTTGGAG	CAGGAAAGAC	AGTTGTACAA	3720
CACCAAGTAG	CTAAATTTGC	CAATGTTGAT	ATTGTTATTT	ATGTCGGTTG	TGGAGAACGT	3780
GGAAATGAAA	TGACGGATGT	ACTGAATGAG	TTTCCTGAGT	TGATTGACCC	TAATACCGGA	3840
CAATCAATTA	TGCAACGGAC	AGTTCTGATT	GCTAATACTT	CAAATATGCC	TGTTGCTGCT	3900
CGTGAGGCTT	CAATTTATAC	AGGAATTACC	ATGGCTGAGT	ATTTTCGTGA	TATGGGCTAC	3960
TCTGTCGCCA	TTATGGCTGA	TTCAACTTCA	CGTTGGGCAG	AAGCGCTACG	TGAAATGTCA	4020
GGACGTCTAG	AAGAAATGCC	TGGTGATGAG	GGTTATCCTG	CTTATCTGGG	AAGTCGTATC	4080
GCTGAATATT	ATGAAAGAGC	AGGACGTTCT	CAGGTTCTAG	GGCTTCCAGA	ACGTGAAGGA	4140

			924			
ACGATTACTG	CTATTGGAGC	TGTATCGCCA	CCTGGTGGAG	ATATTTCAGA	ACCAGTTACT	4200
CAAAACACTT	TACGGATTGT	GAAAGTTTTT	TGGGGGCTTG	ATGCTCCGTT	GGCACAGCGA	4260
CGTCATTTTC	CTGCAATTAA	CTGGCTTACA	TCTTATTCAC	TATATAAAGA	CAGTGTGGGC	4320
ACTTATATAG	ATGGTAAAGA	GAAGACAGAT	TGGAATAGTA	AAATAACTCG	TGCGATGAAC	4380
PACTTACAAC	GGGAATCTAG	TTTAGAGGAA	ATTGTTCGTC	TTGTTGGAAT	TGATTCTCTG	4440
PCTGATAATG	AACGACTAAC	GATGGAAATT	GCTAAACAAA	TTCGAGAAGA	TTATTTGCAA	4500
CAGAACGCTT	TTGATTCGGT	AGATACATTC	ACTTCGTTTG	CAAAACAAGA	AGCAATGCTA	4560
AGTAATATTC	TCACTTTTGC	TGATCAGGCA	AATCATGCTT	TAGAGTTGGG	TTCTTACTTT	4620
ACAGAGATTA	TGGAAGGTAC	CGTGGCAGTT	CGAGACCGTA	TGGCGAGAAG	TAAATATGTT	4680
<b>PCAGAAGATA</b>	GATTAGATGA	AATCAAAATT	ATATCAAATG	AGATTACACA	TCAAATTCAT	4740
PTGATATTAG	AAACAGGAGG	TCTATAAATG	AGTGTTATAA	AAGAATACAG	AACTGCTAGT	4800
GAAGTTGTTG	GGCCTCTTAT	GATTGTTGAA	CAAGTAAATA	ATGTGTCTTA	CAATGAGTTA	4860
GTTGAAATTC	AACTTCATAA	TGGAGAAATT	CGTCGTGGAC	AAGTTTTAGA	GATCCACGAA	4920
GATAAAGCAA	TGGTTCAGCT	TTTTGAAGGA	TCTAGTGGAA	TAAATTTAGA	AAAGTCTAAA	4980
ATTCGTTTTG	CTGGTCATGC	ATTAGAATTG	GCTGTATCTG	AGGATATGGT	TGGTCGTATT	5040
PTTAATGGGA	TGGGAAAACC	AATTGATGGT	GGACCAGATT	TAATTCCAGA	GAAATATTTA	5100
GATATTGATG	GTCAAGCTAT	TAATCCTGTA	TCTAGAGATT	ATCCAGATGA	ATTTATTCAG	5160
ACAGGGATCT	CCTCTATTGA	TCATTTGAAT	ACTCTTGTAC	GTGGTCAAAA	ATTACCAGTA	5220
PTTTCAGGTT	CGGGCTTACC	TCATAATGAA	TTAGCTGCTC	AGATAGCAAG	ACAAGCGACT	5280
GTTTTAAATT	CTGATGAAAA	TTTTGCGGTT	GTATTTGCAG	CAATGGGTAT	TACTTTTGAA	5340
GAAGCTGAGT	TTTTTATGGA	AGAACTCAGA	AAAACAGGAG	CGATCGATCG	TTCGGTTTTA	5400
гттатсааст	TGGCAAATGA	TCCTGCAATT	GAGCGTATTG	CAACTCCCCG	CATTGCTTTA	5460
ACTGCGGCAG	AGTATCTAGC	TTTTGAAAAA	GATATGCACG	TTCTAGTTAT	CATGACGGAT	5520
ATGACTAACT	ATTGTGAAGC	GTTACGTGAA	GTCTCGGCAG	CTCGCCGTGA	AGTTCCAGGG	5580
AGACGAGGCT	ATCCGGGATA	TTTATATACA	AATTTATCAA	CTCTATACGA	AAGGGCTGGT	5640
CGCTTAGTTG	GTAAAAAAGG	TTCGGTGACA	CAGATTCCTA	TTTTAACAAT	GCCAGAAGAT	5700
GACATAACAC	ATCCAATTCC	TGATTTAACT	GGATACATTA	CTGAAGGGCA	AATTATTTTG	5760
PCGCATGAGT	TGTATAATCA	AGGTTATCGT	CCACCAATCA	ATGTTTTACC	TTCTCTCTCT	5820
CGATTAAAAG	ATAAGGGATC	TGGAGAAGGT	AAAACTCGTG	GAGATCATGC	TCCAACTATG	5880
AATCAACTGT	TTGCAGCCTA	TGCCCAAGGG	AAAAAGGTTG	AAGAGTTAGC	AGTAGTATTA	5940

GGAGAATCGG	CTTTATCTGA	TGTAGATAAA	TTGTATGTGA	GGTTTACAAA	GCGTTTTGAA	6000
GAAGAGTACA	TAAACCAAGG	AAATTTTAAA	AATCGAAATA	TAGAAGATAC	GTTGAATCTT	6060
GGTGGGAAT	TACTATCAAT	TCTTCCTAGA	ACAGAGTTAA	AACGTATCAA	AGATGATTTG	6120
CTTGATAAAT	ACTTACCTTT	GGTAGAAGTT	TAATCCGGAA	ATGGAGTGAT	TATCTATGGT	6180
ACGTTTGAAT	GTAAAACCAA	CTCGTATGGA	ATTGAATAAC	TTAAAGGAAC	GTTTGACAAC	6240
AGCTGAACGT	GGACATAAGT	TATTAAAGGA	TAAAAGAGAT	GAATTGATGA	GGCGATTTAT	6300
PTCTTTGATT	CGTGAGAATA	ATCAACTTCG	GAAAGAAGTG	GAAAGTTATC	TAATTGATAA	6360
CTAAAATCC	TTTGCAGTTG	CTAAATCATT	AAAGAATTCT	CAAATGGTGG	AGGAATTATT	6420
гтсааттсса	TCGAAAGAAA	TTGAATTATT	TGTTGAGAAA	GAAAATATCA	TGAGTGTAAC	6480
AGTTCCTAGA	ATGCATATGA	ATATTACTTC	TCAAAATGAG	AACAGTGAAT	ACAGCTATTT	6540
ATCTTCTAAT	AGTGAAATGG	ATGATGTATT	TGCTACAATG	AATAGTTTAA	TTTATAAATT	6600
ACTAAGACTG	GCAGAAGTTG	AAAAAACGTG	TCAGTTAATG	GCTGATGAAA	TAGAAAAAAC	6660
ACGTAGACGT	GTAAATGGTT	TAGAATACTC	GATTATTCCA	AACTTGTCGG	AAACTATTCA	6720
гтататасаа	TTGAAACTAG	AGGAGGCAGA	AAGAGCCAAT	TTAGTTCGTA	TTATGAAAGT	6780
GAAGTAGATC	CTTTATTTAG	ATTATTAATT	AGATGAACAA	ATATCAGCTT	GGATAAGGCT	6840
<b>PTAAGCCTTT</b>	CTAAGCTTTT	TTTATTGACA	GTATCAGGAT	ATCTTTTCA	AAATTTTGGT	6900
<b>TTGTTAGATA</b>	ATGAAAATGT	TTCTACTAAT	CTAGATTTAG	GATTAGTAAA	TCGTAAATGT	6960
<b>AATTATATAG</b>	AAAGTAAGCG	CGTCATAACA	AGGTATCTAT	CATTCATGGA	GCTCCTCCTG	7020
ГАТАСТАТТА	GTAAAGTAAA	ACTATTGGAG	GATATTTTAA	TGCCACAACC	TATTGTTCCT	7080
STAGAGATTC	CACAATCTCG	TCGTTTTGAT	TCTAAAAAGA	GAAATGATAT	TCTGCTTAAA	7140
attcgtattg	GCAAGCTTGA	AGTAAGTTTT	TTTCAATCTC	TCAATCTCGA	AATGGTAGAA	7200
CAGCTTTTGG	ATAAGGTGTT	GCTCTATGAC	AATTCATCTA	TCTAGCCTAG	GGGAGGTCTA	7260
PCTCGTGTGT	GGGAAAACTG	ATATGAGACA	AGGAATCGAT	TCACTGGCTT	ATCTGGTTAA	7320
ACCCACTTT	GAATTGGATC	CTTTCTCCGG	TCAAGTCTTT	CTCTTTTGTG	GTGGACGTAA	7380
AGACCGCTTT	AAAGTCCTTT	ACTGGGATGG	TCAAGGATTT	TGGCTACTAT	ATAAACGCTT	7440
rgagaacggc	AGATTGATTT	GGCTAAGTAC	AGAAAAGGAT	GTCAAAGCTC	TCACACCAGA	7500
ACAAGTAGAC	TGGCTTATGA	AGGGCTTTTC	TATCACTCCA	AAAATATAGT	AGATTGAAAC	7560
Pagaatagta	CACCTCTGCT	TCTAAAACAT	TGTTAGAAAT	CGATTTTACT	GTCCTGATCG	7620
ATTTGTCCTG	TTCTTATTTC	ATTTTACTAT	AAATCCATCA	GAAAGTCGTG	ATTTCTATTG	7680

			926			
AAATGAGGAC	TTTCTTTTTA	TACTCATCTG	CTTTCAAAAA	GCATTCTAGT	CCATCTCCGA	7740
TTAACGATGG	ACTTTATCAC	CTCCTTCTCC	AGTCCTTGTA	TAACATCTTG	GAGTTGATTC	7800
ATGACATCTT	CCAAAGTTTA	AAAGGCTTTA	TTCTTAAATC	CACGTTTACG	AATCTCTTTC	7860
CACACTTGTT	CAATGGGGTT	CATCTCTGGT	GTGTATGGAG	GAATAAATGC	AAAGCCAATA	7920
TTAGTCGGAA	TCTTTAAGGT	ACTTGATTTA	TGCCATATAG	CATTGTCCAT	AACGAGTAAA	7980
AGATAATCAT	CTGGATAAGC	TTGTGAAATC	TCCTATTCCT	AAAGCCCCTT	TAGCGCATAA	8040
CTTTGGCTCA	GCTTCTATTA	TCGCTCACAC	CATCCATCAG	AAGTTTAATC	TGAAGGTACC	8100
CAATTATCGC	CAAGAAGAAG	ATTGGGCTAG	GATGGGTTTA	CCAATCACAC	GTAAGGAAAT	8160
CTCTAATTGG	CATATCAAGG	CGAGTCAATA	CTATTTGGAG	CCCCTTTATA	ACCTCTTGCG	8220
AGAGAGACTA	TTGACTCAGC	CCTTACTTCA	TGCGGATGAA	ACTTCTTATA	GGGTGCTAGA	8280
GAGTGATAGT	CAGCTGACTT	ACTATTGGAC	TTTTTTGTCA	GGTAAAGCAG	AGAAACAAGG	8340
GATTACGCTT	TACCACCATG	ATCAGTGTCG	AAGTGGTTCA	GTAGTACAAG	AATTCCTAGG	8400
AGATTATTCT	GGCTATGTGC	ATTGTGATAT	TTTGCGGCAG	TAACTTAGGA	CTTTAGTCCT	8460
CTAGTTCTGC	CTATGCGATA	GCAGTCCAAG	GTTTAGGAGC	AAGGCGACGC	TAAGCTTGGT	8520
AAACTTCGAA	CCCCTCCTCT	GCTTATCGTC	AACTGGAAGA	AGCTGAACTT	GTTGGATGTT	8580
GGGCGCATGT	GAGAAGGAAG	TTTTTTGAAG	CGCCCCCCA	AGCAAGCGGA	TAAATCATCC	8640
TTAGGAGCTA	AAGGTTTAGC	TTATTGTGAT	CAGTTATTTT	CCTTGGAAAG	AGACTGGGAG	8700
GCTTTGCCAG	CTGATGAACG	ACTACAGAAA	CGTCAAGAAC	ATCTCCAGCC	CTTAATGGAA	8760
GACTTCTTTG	CTTAGTGCCG	GCGTCAGTCA	GTTTTAGCAG	GTTCAAAACT	AGGAAGGGCA	8820
ATTGAATACA	GCCTCAAGTA	TGAAGAAACC	TTTAAGACCA	TTTTGAAAGA	CGGACATCTG	8880
GTCCTTTCCA	ATAATCTAGC	TGAACGCGCC	ATTAAATCAT	TGGTTATGGG	ACGGAGTAAA	8940
AGAGTCCAGT	GGACTCTTTT	AGCCTAAGCT	CAGTTTAAAA	AAGCGAGGGT	GGTTATTTTC	9000
TCAAAGTTTT	GAAGGAGCTA	AAGCAAGAGC	TATTATTATG	AGTTTGTTGG	AAACAGCTAA	9060
ACGTCATCAA	TTAAATAGCG	AGAAATATCT	ATCCTATCTT	CTAGAATGTC	TTCCAAACGA	9120
GGAAACTCTC	GTAAACAAAG	AGGTTTTAGA	GGCTTATTTA	CCATGGACTA	AAGTTGTACA	9180
AGAAAAGTGC	AAATAAGAAA	TCTCCAGATT	AGGAACTATC	CGTGAGTTCT	CCAGTCTGGA	9240
GATTTTTCAA	TAGACTTCCT	GCGAAACAAA	ATATGGTATA	ATAGTTCTAT	GAATGATGAA	9300
GCAAGTAAAC	AACTAACCGA	TGCACGATTT	AAGCGTCTTG	TTGGTGTTCA	ACGCACGACT	9360
TTTGAAGAGA	TGTTAGCTGT	ATTAAAAACA	GCTTATCAAC	TTAAACACGC	AAAAGGTGGA	9420
CGAAAACCTA	AATTAAGTCT	AGAAGACCTT	CTTATGGCCA	СТСТТСААТА	TGTGCGAGAA	9480

9540	CTTAATCCGT	ACGAAAGCAA	TTTGGTATTC	TGCGGCTGTT	ATGAACAAAT	TATCGAACTT
9600	AAGAACTCCT	TTACGATTTC	CAAAGTGGTG	AACTCTTGTT	GGGTTGAAGT	CGGAGCCAAT
9660	TCGCCCTAAA	тааааатсаа	GCGACGGAAG	AATGATTGAT	AGGACACGGT	CTCAGTTCTG
9720	CTCAAGCGAT	GCTATGAAGG	GAAATTTCAC	CTGGTAAAAA	GCGAATTATT	aaaagaatta
9780	GTCATGATAT	GTGAACTATT	GGATATCACT	TTGTTTCTTT	CAAGGGAGAA	TGTCACAAGT
9840	TGGCTGACAG	GGTAAAATCT	CAGACAAGCT	GCAGAAATAT	AAAATGAGTC	GAAGTTGTTC
9900	AATCCAGCAA	ACTTCACGTA	TCAAGCACAA	AGATATATCC	GGGCTCATGA	TGGTTATCAA
9960	AGGAGAGAAG	GCGCTATCTA	CTATAACCAT	AAGATAAAGT	CTAACAATTG	ACTCAAACCG
10020	CAACCTATCG	ATGATTTCAA	AACGTTTAAA	CCAAAGTAAA	AACATCTTTG	CAAGGTTGAG
10080	CAATCATGAA	CTGGTATTAT	AATTTGATTG	ATTACGAATG	AACGCTTCGG	ааатсатста
10140	TATATAAGAT	CCATCAAGAT	ATCAAAAATA	GAAGTCTATT	AGTTTTGCAG	CTAGGATTCT
10200	ААААААТАТТ	CAAATAGATA	AAATATTAAT	TTGATGGTGT	AAAGTTTTAT	<b>PGATACA</b> GGA
10260	GTATTCTTGA	TTGAACCGAA	TTCATTTTA	TTCCACAGGA	TTAGGAGTAG	AAGTCAAAAT
10320	GTAAAGCAGT	GAGGAAGTTT	ACAAAAGATA	AAGTTACTTC	TTAAAGCACG	PAATATAACT
10380	TCTCAGAGAT	AATACTATCA	GATGAAATTT	TGGCTATGCC	GATGAAATCA	<b>PCAAATCTAT</b>
10440	CATTAATAAA	CTGGCACGTG	ACGGATAGCA	GGCAAAGGCA	ATTTCAGGTG	GGGTCAAAT
10500	TTAATGAGGA	TTAGACACTA	AACTAGTGCA	TAGATGAAGC	ATTGTAATTT	PAATCCTAGT
10560	CTCATAGATT	ATAATTGTAG	CTGTACTCAA	AAAGTCAGGG	AAGTATATAC	AAGAATAACA
10620	TTGTTGAGTC	GGTGGTAAGA	TGTAATGAAA	ATGTTATTTT	AAGGATGCGG	STCAACGATT
10680	ATACAAAAAG	TACAGCTTAT	TGGAGAGTAC	TGGATCTTGG	AAGTACTTAA	AGGAAATCAT
10740	CAACAGCCTC	GTAATTTTAA	AAATGAATAT	TGAAGAAAGA	GTAAAGAAAA	GAAATGAGGT
10800	TTGAATATGG	GATTTTCCAG	AATTTTTTTA	TAGTGTTTGC	ATGATTGGAA	ACTAGGGGTG
10860	ACAAAAACAA	CTGATTGTTT	ATTGGGTTCG	ATGGAATAGT	GGCTTGTTGA	PATTTCTTTA
10920	TAGTTGAAAT	GAGATGGCTA	CTAAGGAGTA	TTGCTGTAAA	GCATAATTTT	PAAGAATTAA
10980	AAATAATAGA	CATAACACTT	TGAAGTTATT	TTAAAGATAT	ACAAAAAGCT	PATAAATCTA
11040	TAGCGGTTTT	TTCTTAGGAG	TAAATCGCTA	AAAACATGAT	TAGTAGCTTA	CAACTACAG
11100	CTTTACCGTA	GTCAGCTTTG	TTCAAACCAC	TGAAAATCTC	TAATACTCTT	CTTTTTGTT
11160	GAGTATAAAA	GATTTTCATT	TTTGCTCTTT	CGCTTCCTAG	GCCTGCGGCT	TCAAGTACA
11220	GAAAAGTCAA	AAATCGATTA	AGATATGAAC	AATTGAAATA	AAGTATAGTA	AGGGTCAAGT

			928			
TTAATTTCT	AGAAATATGT	TAGAAATTGG	TTTGAATTCC	GCAATCAATT	TGTTCAGTTT	11280
TTATTTCATT	TCATTTTATT	TAATTAGATT	TTCCAATTTT	TTAATTCAAG	СТАААААТСС	11340
CCAATCGTAG	TGATTGAGGA	TTGAGTAAAT	AAATCTTAAA	CAATACCTTG	TGCAATCATG	11400
GCATTTGCTA	CATTTTCAAA	GGCAGCAATG	TTAGCTCCTG	CAAGGTAGTC	TTTATCAAGA	11460
CCGTATGTTT	CTGAAGTCGT	TTTAGCTGTG	TTGAAGATGT	TTGTCATGAT	GTCTTTGAGA	11520
CGGCCATCAA	CTTCTTCACG	AGTCCATGAG	AGGCGAAGAC	TGTTTTGGCT	CATTTCAAGA	11580
GCTGAAACGG	CTACACCACC	AGCGTTGGCA	GCTTTTGCAG	GTCCGTAGAA	GATACCATTT	11640
ГСТТТСТААА	CTTTGATGGC	ATCAAGGTCG	CTCGGCATGT	TGGCACCTTC	AGATACACAG	11700
ATAACGCCTT	GAGCAACCAA	ACGTTTAGCT	GCTTCACCGT	TGATTTCGTT	TTGAGTGGCA	11760
CATGGAAGAG	CAATGTCATA	GTTTCCAGCG	TAAGTCCATA	CAGTACCTTC	GTGGTAGGTT	11820
GCAGTTGCTT	TTTCAGCTGC	ATACTCAGTC	AAACGAGCAC	GACGTTTTTC	TTTAACATCA	11880
ACCAAAAGAT	CGAAGTCGAT	ACCATTTTCA	TCGATGACAT	AACCATTTGA	GTCAGAAACA	11940
GAAATAACAG	TTGCACCGAG	TTCAGTTGCT	TTTTGAAGAG	CATATTGAGC	AACGTTACCA	12000
GAACCTGAAA	TAACGACTTT	CTTACCAGCA	AAGCTGTTAC	CGTTAGCTTT	GAGCATTTCT	12060
<b>FCAGTATAGT</b>	AAACCAAACC	GTAACCAGTT	GCTTCTGGAC	GAATCAAGCT	ACCACCAAAT	12120
CCAAGAGGTT	TACCAGTCAA	GACACCAGCA	TCAAATTGGT	TAAGACGTTT	GTATTGACCG	12180
PAAAGGTAAC	CAATTTCACG	TCCACCAACA	CCGATATCAC	CAGCAGGTAC	GTCAAGTGAT	12240
GGTCCGATGT	GTTTTTGCAA	TTCAGTCATG	AAGCTTTGGC	AGAAGCGCAT	CACTTCAGCA	12300
CTGTTTTAC	CTTTAGGATC	GAAGTCTGAT	CCACCTTTAC	CTCCACCGAT	AGGAAGTCCA	12360
STCAAGACAT	TTTTAAAGAT	TTGTTCAAAT	CCGAGGAATT	TCAAGATCCC	TTGGTTTACA	12420
GTTGGGTGGA	AACGAAGTCC	ACCTTTGTAT	GGTCCAACAG	CTGAGTTGAA	TTGAACACGG	12480
<b>TAACCACGGT</b>	TTACTTGAAT	TTTTCCATCA	CGGTCAACCC	AAGGAACACG	GAAAGAAACC	12540
ACGCGCTCAG	GCTCAGTAAT	ACGTGCCAAG	ATATTTTCTT	CGATATACTC	AGGGTGTTTT	12600
<b>CAAATACAG</b>	GTTCTAAAGT	GTTGAAAAAT	TCTTCAACAG	CTTGGAGGAA	TTCAGCCTCG	12660
rgccgg						12666

### (2) INFORMATION FOR SEQ ID NO: 138:

# (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 3083 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

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### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 138:

60	GCCATTTTGA	GGTTAATAGA	TCCAAGAATT	TCCGATAAAT	GTGAACCAAT	AGCAACTGTT
120	AGGAAGGATA	TGATCCAGGT	AGGAGCAAAT	ATAGGCTTTA	CGATAAAAGC	ССАААААТСС
180	CGTCGGATAA	AAAAGAGGGC	AGACGGGTCA	ACGGTGTTTG	GCCAGAGTTG	ATCAGCATGA
240	GAAACTCATT	GCACTGAGTT	CCTGCATAAA	GGTCACAATG	GTGCCACAAA	CTGATAAGCA
300	ACTGAACTGG	AATTTTCTAA	TAAGATTTGT	TGACGCAAAG	TCAAGTTTTG	TTAAGATAGG
360	TACAAAGAGC	AGGGTGCCAA	ATCAAGACCA	TTGACCGAAA	TGAAAAAGGA	CCTTCGATGT
420	CATCTCTTTC	TTGTTTTCTT	AGTTTAGAGC	TACTACAAAG	GCATGTAGGG	GCAATCCAAA
480	ACTCCTCAAT	ATTTCTACGT	TTGCTCTTCG	AACCTGCTTC	GCATTGATCA	CTCCTCGATT
540	CTTCTGGTTC	ATGTGGATGT	GAGACGCATG	CGGTTTCATT	AACTCTTCTT	ACGAGCATCG
600	TCATCCATTC	GTTGAGTGGA	AGCCTTACGG	CACCCACGAT	CCGATTTCCT	AAAGTCCAGA
660	GCTGGGTATC	CCACGGAAAA	ATAATGAACT	CGATAATTTC	TCGTCATAGG	ATTTCCAAGT
720	CTGGACGAAT	CGCAAGTCCT	AAGGGTAATG	CTTCTTCAGG	TGGAGCTTGC	GACCTTAACT
780	AGCGTTTGCC	ACCGCTTCAA	CCCACCATCA	TTGGCTTCAT	ACAGGTTCAT	AACGACCTCA
840	ACTCCCCGAT	AAGATGTTTG	GGTACCTGGC	CCTCAATCAT	ACCAAGTAGT	GTTAAATTCG
900	TTCCAGACTG	TCCACAGGGG	ATCGTAGATG	TGATTGGCTC	ACAAAGTGGT	AAAGGTGGCA
960	CTTCTTCCTG	ATGGCAAGAG	CCAGTCACTC	TAACGAAAAT	CCATCATTCA	GACAATCTCG
1020	GCAATTCGTA	TGTAATTCAC	CAATCGTTGT	AGGTAATGCC	ACAAAGACAA	ATCGTGAGTG
1080	ACAAGACCAC	GGCTCGTCCA	CGCTGATAAA	TCAAGTCCAG	GTTCTCAATT	CTGCATGTCT
1140	CTCCAGAAAG	TGACGTTGTC	GGCCACACGC	CACGGGCGAT	TTGATGATAG	ACGGGGTTGG
1200	CTTCCGCTAC	ATCTTGAGAA	CAACTGAACC	CATAACCTTC	GAACGTTTTT	TTTGCGGATG
1260	CAACATTTTC	AGTGGAAAGG	ACGCAAGCGA	TATCAATTTT	ATTTCTTTCT	ACGCTGCTCG
1320	CGTCGCGCTT	ACGGTATGTA	GGATTGGAAG	ACAAGGCATA	ATATGTGGGA	AAACACATTC
1380	TCGTCGCATC	ATATCTCCTG	GTCTAGCATG	TACGAACACC	ATATCATTGA	GTTGGTTGGA
1440	CACCTAGAAG	GAACCAGATG	TGATTTCCCC	TTAGGATAGT	GCAATAATGT	CAGTAAACCT
1500	TGGTGTTGCT	TTGAGAACCT	GTTGATGTCT	CCAACTCAAA	TTCCCTTCTT	GGTGTAGAAT
1560	ATTGGCATAA	GGCTTTTTCA	TTCGATAATT	CGTTTTTGAA	ACTTTAGAGA	GTCTTCAAAA
1620	TACCTCTTGC	AGGTCCCCAC	GGGCTCTGTC	TAACCGATCG	TTTCATAGAT	ATTCCTTCTT
1680	AAGATCCGGA	GCTTTCACCC	CTACCGATAG	TACATCTTCG	ACCACCTGCA	agggagtaaa

			930			
CTTCTCTTTC	AAGCGTAATA	CCTGAGTGTT	CCTTGACTTT	TTCGATAACC	GATTGGATCA	1740
AGTCCTCGTA	GTCTTTGGCC	GTTCCATCTG	CGACATTGAT	CATAAATCCT	GCATGCTTTT	1800
CTGACACTTC	TACGCCACCG	ATACGATAGC	CTTTCAAGCC	AGCTTCTGAA	ATTAACTGAC	1860
CTGCAAAATG	CCCGACTGGA	CGCTTAAAGA	CCGAGCCACA	AGATGGGTAT	TCCAAAGGTT	1920
GCTTGAGTTC	ACGTAGGTGC	GTCAAGCGGT	CCATTTCCTG	CTTGATAACC	TGATGGGTTC	1980
CTGGAGCTAG	GGCAAATTTA	ACTGACAAGA	CAACTGCACC	AGACTCCTGA	ATAGCTGAAT	2040
GACGGTAACC	AAAAGCCAAG	TCTTTAGCAG	ACAGGGTTTC	GATTTCTCCA	TCCTTGGTCA	2100
AGACCTTACA	AGACTGCAAG	ATGTGAGCAA	TCTCGCCACC	ATAGGCACCC	GCATTCATAA	2160
AGACAGCACC	GCCAACGCTT	CCTGGAATAC	CACAAGCAAA	CTCAAAGCCA	GTTAAACTAT	2220
GACGGAGGGC	AATGCGAGTT	GTTTCAATCA	AGTTAGCCCC	AGCTTCTGCT	TCAATGGTAT	2280
AGCCATCAAC	AGAAACGTTA	TTGAGCTTGT	CACACAAGAT	GACAAATCCA	CGAATCCCAC	2340
CATCACGAAC	GATGATATTG	CTTGCATTGC	CAAGAACCAT	CCAAGGGATA	TTTTCTTGGT	2400
TGGCAAATTT	CACAACGCGA	GCCAACTCAA	AACGATTTCG	TGGAAAGACC	AAATAATCAG	2460
CCTCTCCACC	TACTTTTGTA	TAACTATAGC	TATGCAAGGG	TTCCTTAAAA	CGGATATCAA	2520
TTCCTTCTAA	GATTTCAAGC	ATTTTTTCTC	TTACAGACAT	GTCACTCTTC	CTTTTACAAA	2580
ATTCATTCCA	TTATACCATT	TTTAGAGACA	TTTGACGACC	ATAAAAATAC	CTTGTTTGGA	2640
TTTTGCATAA	GAAAAAGAGG	TTCCCCCCTT	TTTATGATTT	TTTACAAAAG	ATTTCCTTGG	2700
TTCCATAGGC	GACCAGAACG	AGCTCCAGTG	CTAGAATCAC	TTCAACCAAG	ACTGGATTTG	2760
TCAACCAGCC	TACTTGGAAA	AGAGATGGTG	CCAGATCAAA	GAAGGCATGC	AAGCCATAGG	2820
CTGCTAGGAG	ATAAATCCAT	TTCTTCTGGC	GAACAGCTTG	GTAAACCCAA	ACTGTCAAAA	2880
GTAATTGGAA	ACCAAGCGCC	AAGATTCGCT	CAAAACCAAG	CAAATAAATC	TGCCAGACCG	2940
AAAGTGACTG	AATGGTTTTT	AACATATTT	CAGACAGTAA	TTGCA PAACC	TGTGGATTCT	3000
GAGTTTGAAC	TGCCGAAAGA	ACAATGTAAA	GATTGAGTAA	ACTAGTAAGG	CCTAGAAAAA	3060
TCAACTCCAA	GCCACCATGC	ccc				3083

### (2) INFORMATION FOR SEQ ID NO: 139:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 15363 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 139:

931

CCGGAGGATA	TTGACCACCA	CCAAAAGCAG	GGGGAAAATC	GAAATCAACC	AATAGTAGGC	60
TACTGCGACA	CTGGTCAACT	CACTATCTGA	TGCTTGATAA	TAATGCAAAA	AAGCTTTTAA	120
TAAAGGTTTG	TCTATCAGCT	CTTTCCACCA	CTTTTTCATG	TCATACTCCT	TCACTTATAA	180
TCTTATACTC	AATGAAAATC	AAAGAGCAAA	CTAGAAAGCT	AGCCGCAAGC	TGCTCAAAAC	240
ACTGTTTTGA	GGTTGTAGAT	AAGACTGACG	AAGTCGATCA	CATACATACG	GTAAGGCGAC	300
GCTGACGTGG	TTTGAAGAGA	TTTTCGAAGA	GTATTAACTA	ATTTCTTCTT	ACCAATTCCA	360
CCATATCATA	CGGTAGGGTA	TTGGCAGCTT	CCTTCAAGGA	ATAGTTCTCT	AAGTTATTTA	420
CATTTTGTCG	TAATTTCTTG	GCATACTTAG	TCGTAATCAA	TCGTTTTTCT	TCGTATTCGA	. 480
AAATCAACTT	GCGCTCCAGA	TAATAGCCTC	TCAGCATTTC	ATCGATATTG	TTGGGTTTGA	540
CACGATTGAT	AACCCGTTCG	ACAAAGGCAC	CACTGCTGAT	AATAGCTGTT	TCTCGAAGAC	600
GAGACTCCTG	CATAAAACTA	ATCAAAGAGC	GTCTGTAGAC	TCCCTTCAGG	TTTTCCAAAC	660
TTTCAATAAT	CATCTCTGTA	TTGGCAAGAT	AGAGCTCTGC	AATTTGGTCA	TAATCAAGAG	720
CACGGAGACG	GCTTTGCTCC	TTGTTCTTCC	AGCTACGGAA	GGTCTTTCCG	AGAGTAAAAA	780
CTTCATGAAG	GAGAAAACGT	AAAATCCTCA	AGGAAACAAG	AAAATAATAG	GTCAGTCTTG	840
AGGCAAGTTT	ACGATTGATT	CCTTGTTCTA	TATTTTTCAG	ATAACGTTGG	TAAACTCGGT	900
AAGCACGATT	GCTAATGTTC	CCCTCTTCAT	AGGCCTGTTC	CAAACCATCA	CTTTCAATAC	960
TAAGAATCAA	GAGTTTCAAA	GCAGCCCAGT	CTTCTTGATC	ATCCTGGTTT	TCTTGGCTTA	1020
AAATGAGATT	TTCAATACGT	CCATGATAAT	TGTCAATAGC	CGCATAGAGG	GGAAGTTTAT	1080
TTCTGGTGTC	TTCCAACTCT	TTTTCCAACT	CTAGCGTTAC	TTCATTCAAA	ATGGCGATAT	1140
GCATAAGATA	ATCCTTGCTT	TCTTCCTCTT	CATCAGAAAG	ATGAGGCAAG	ACCAAGAGAC	1200
CTGTTAAAAA	GCTAACAAGC	GTCACACCTG	CAACAAGGAA	AAGCAAAAGA	GGATACTCCT	1260
GTTCTAGATT	ACTTGGTATC	AAGAGAATCG	TAGCAATCGA	CACCGTTCCC	TTAACACCTG	1320
AAAAGGTCAA	GAGAAACATG	TCCTTCATAT	ACTTATTTAG	CTTTTTCTTG	AGGCGTCGGG	1380
TTCTATAGGC	ATAATAGCCA	TAGATCATAA	TAAAACGAAT	GACAAAAAGG	ACAAAGGTAA	1440
GGGCGATAAG	AGATAGCAAT	AAAAGTAGAG	GATTATAGAT	TGGATTGGTC	AAGATAGGTT	1500
CTGCTATCAT	TTCCAACTCC	ATCCCTAAAA	TCACAAAGAC	AGAACCGTTG	AGCATAAAGG	1560
TCACTGTATG	CCAGACCGTC	TCGGTCACCG	TATCCACTTG	GGCTTCGAGG	AGCGTGATTT	1620
TCTTGAAGCG	ACTTGCCTTT	AAAATTCCAG	CAACTACGAC	GGCAATAATA	CCTGAAACAT	1680
GAACTTCTTC	TGCCAGAAAG	AAGGTCACTA	GAGGCAAACT	CAATTCTAAT	AAAAGTTCAC	1740

			932			
TGGCAATATC	CGTTGCGCGC	ACACTTAGCA	AGAAGGTATG	GAGGAAGCGG	TTGGTCATGG	1800
CTGTTAAAAA	TCCAATTAAA	AAACCGCCTA	GGATTGAAAA	GATGAGCGAA	CTGCTAGCTT	1860
GCCCCAGAGA	AAAAGCTCCA	GTTGTCCAAG	CTGTCAAAGC	TACCTGAAAA	GCCACCAAAC	1920
CAGAAGCATC	ATTCAAGAGT	CCTTCGCCCT	TAAGAATATT	GGACACGCGC	TTAGGAAAGC	1980
TAAAACGCTC	CGAAAGAGAG	GCAAAGGCCA	CCAAGTCCGT	AGGACCAAGG	GCTGCCCCAA	2040
CAGCCAAGCA	AGCTGCCAAG	GGAAGGCTGA	ACCAAAGAAG	ATGGGCCAAG	CCACCCAAAC	2100
TCAGGGTCGA	GATAAAAATC	ACTGGAAATA	TGAGATAAAC	AATGATTCGC	CAGTGTTTTA	2160
AAATAGCCGT	AACATCTGCT	TCTTCAGCCT	CTCGGAAAAG	CAAGGGTCCG	ATAACCAGTG	2220
CCAAAAACAA	CTCCGTATTA	AGGTGAAAGT	CAGTATTGGG	TAAAAAGAGA	CCAATCACAA	2280
TTCCCAAAAG	AATTTGCACC	<b>AAAGGGAGAG</b>	GCAAAAAGGG	CAGGAGCTTA	TTGGTTGTAC	2340
TTGAGACAAT	CAAAACCAGT	AAAAATAGGA	TGAGGTAAAT	CAGTAATTCC	ACGCACGTCC	2400
TCCTTAATCT	TTTTTACAAC	AGGATTCAAA	TATCTCCTTC	TGCTCTTTGA	TTTTTTGGTC	2460
AATCTTGGAA	CAGTCTTTGT	GCTCAATTTT	TCTCTGGCAC	CGTTCCATTT	CAAGAGCAAC	2520
TAATTTTTTC	TTGATTTTAA	GCATTTTTT	GCTCATATGC	GCTTGGTCTA	GCACGCCCAT	2580
CCCTCCTTCC	TGGTGGGTTG	ATTCAACAAA	ATTCTGGCGC	ATGGCATCCA	GCTTTTCGTG	2640
TAAGTATTGT	TTATCCATGT	CTGTATCTCT	CTAATTTTTC	AATCATCACT	AAAAACGGCG	2700
GGTTGTTGAC	TTGGTTTAAA	GTTCGGTAAA	TGGCAGCTGT	GTACTCTTGT	TGGTTCAACT	2760
GGATCACAAA	ATCCAAGACA	GCATCTCTCT	CGAGATCGCC	TCCTTCATGA	CCATAGTAAA	2820
TCATAATAGC	AATTCGTCCA	CCTTTGACAA	GTAAGCCACA	TAGCTTTTCT	AATGCCTCAA	2880
TCGTTGTCTG	CGGTCGGGTG	ATGACAGACT	TATCAGCTGC	CGGCAAATAG	CCCAGATTAA	2940
AAATCCCTGC	CTTAGCTTTT	ATCACAAACT	GGTCCAGTGT	CTCATGGCCT	TGCAAGATTA	3000
ACTGGGCATT	TGTCAAGTCA	GCCTGATGCA	AACGCTCTTG	GGTCTTTTCC	AAGGCTTGCT	3060
TCTGAATATC	AAAGGCATAG	ACTTGCTTGG	CTAGCTTGGC	TAAAAAAAGC	GTGTCATGAC	3120
CATTTCCCAT	AGTCGCATCC	ACTACGACAT	CCTCTTTTGT	CACGACCTCA	GCCAAAAAAT	3180
CATGTGCCAT	CTCAAGTGGT	CTTTTCATTT	TCAAACTCCT	GTTTTACAGC	CTTGCATCCT	3240
TGAACACTTC	CACGACGTCG	CATCTCCATC	TCAATGCTGT	TGAGGACTTC	CCATTTATTG	3300
AGGCTCCACA	TAGGACCAAG	CAGCATATCC	CTAGGCGCAT	CTCCTGTAAT	TCGATGGATG	3360
ACGATATGTT	TGGGAATAAT	TTCCAGTTGG	TCACAGATGA	CCCTGACATA	TTCGTCCTGA	3420
CTCATCAATT	GTAAACGCCC	CTCATGGTAA	TCTCGTTGCA	TACGAGTATT	TGTCATAAGA	3480
TGGAGCAAAT	GCAGTTTAAT	CCCTTGAATA	TCGTTATCCG	TGACACAACG	GCGGACATTT	3540

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ATTTTTGGAT	ACTTTCTCAA	ACGCTTGACC	GTTTCCACCT	ACAATTCATA	AGAATGCGCA	3660
CGGTTAATCA	GGTCAGAGGT	TGCTTCATAA	GTAGTTTGCA	AGCCCAATTC	AACCGTCACA	3720
TGCATGCACT	CCGATAACTC	AGCCAAATAT	TCGATGGTTT	CGTCTGGTAA	ACAGTCTGGG	3780
CGCGTTCCAA	TATTGATTCC	TACCACACCT	GGCTCATTGA	TAGCCTGTTC	ATAACGCTCT	3840
CGAATAACTT	CCACCTTTTC	ATGGGTGTTG	GTAAAATTTT	GAAAATAAAC	CAGATACTTC	3900
CGAACATCCG	GCCACTTGCG	GTGCATAAAG	TCAATTTCCT	TATAAAATTG	CTCACGGATA	3960
GGCGCATCCG	GTGCCACAAT	GGCATCTCCA	GAACCAGAAA	CCGTACAAAA	AGTACAGCCC	4020
CCATGAGCCA	CAGTCCCATC	ACGATTGGGA	CAATCAAATC	CCGCATCAAT	AGGGACTTTA	4080
AAAGTCTTTT	CTCCAAAGAG	TTTTCGATAA	TAATCATTCA	AGGTATTATA	AGATTTCATG	4140
ACTTTCATTA	ТААСАААААТ	CACCCACAAT	CTCAAAAGCC	TGACTTTCCT	ATAAATTCCT	4200
CTGTTTCTCG	TTTCCATTAG	CCTTTTTTTA	TGATACAATA	TGGGTATGAT	TTTAATGAAA	4260
TTAGCATCTA	TTTTATTATT	GATACTGACC	TTAGTCGTCT	GCATTATCCT	AACCAAACTT	4320
TTTAGATTAA	AAAAACTAGG	ACGAAACTTT	GCGGATTTGG	CTTTTCCAGT	CTTGGTATTT	4380
GAGTATTACT	TGATTACAGC	TAAAACCTTT	ACCCATAATT	TCCTCCCTAG	ACTGGGGCTA	4440
GCCCTCTCGA	TCCTAGCCAT	TATTCTCGTC	TTTTTCTTCC	TTTTGAAAAA	ACGCAGCTTT	4500
ТАСТАСССТА	AATTTATCAA	ATTCTTCTGG	CGTGCAGGAT	TCTTATTAAC	CCTTATCATG	4560
TATATAGAAA	TGATTGTTGA	ATTGTTCTTA	ATGAAATAGT	CGAATCCCTA	AGCATTTTCT	4620
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TTTTTGGATG	GTTACGATAG	TCTTGGTAAA	ATAGAATTGC	CCAATAAACC	ATTTAGAAAG	4800
GCTATCCCAT	GCATATTCAC	TATAACACAA	ATCAAACAAC	TTTACCACTA	GAAATCAGTT	4860
CCTTCTTACC	ACAAGATCAT	CTCGTTTTTA	CTATTGAAAA	AGTGGTGAAT	ACCTTGGAGG	4920
AACGTCACTT	CTACACCTCC	TATCATGCCT	TTGATCGCCC	GTCTTATCAC	CCTAAAATGC	4980
<b>FTGTATCTA</b> C	TCTTCTATTT	GCCTATTCAC	AAGGGATTTT	CTCTGGTCGA	AAAATTGAAA	5040
aatggaagag	TTAGTGACCT	TAGATTGTTT	GTTTATTGAC	AGAACTAAGA	TTGAAGCCAA	5100
TGCCAACAAG	TATAGTTTTG	TGTGGAAGAA	AACGACAGAG	AAATTCTCCG	CCAAACTTCA	5160
AGAACAGATA	CAGGTCTATT	TTCAAGAAGA	AATCACTCCC	CTTCTGATTA	AATATGCCAT	5220
GTTTGATAAG	AAACAAAAGA	GAGGGTATAA	AGAGTCAGCT	AAAAACTTAG	CGAATTGGCA	5280

			934			
CTATAATGAC	AAGGAGGATA	GCTACACACA		TGGTATTATC	GTTTTCACCA	5340
TACCAAATAT	CAGAAAACAC	AGACAGACTT	TCAACAAGAA	ATCAAGGTTT	ACTACGCCGA	5400
CGAACCTGAA	TCAGCCCCTC	AAAAGGGACT	GTATATGAAC	GAACGCTATC	AAAACTTGAA	5460
AGCTAAAGAA	TGTCAGGCGC	TTTTATCTCC	CCAAGGTAGA	CAGATTTTCG	CTCAACGCAA	5520
GATTGATGTG	GAACCTGTCT	TTGGGCAGAT	AAAGGCTTCT	TTGGGTTACA	AGAGATGTAA	5580
TCTGAGAGGG	AAGCGTCAAG	TGAGAATTGA	CATGGGATTG	GTACTTATGG	CCAATAACCT	5640
ССТААААТАТ	AGTAAAATGA	AATAAGAACA	GGACAAATCG	ATAAGGACAA	TCAAATCGAT	5700
ттстаасаат	GTTTTAGAAG	TAAAAGTGTA	CTATTCTAGT	TTCAATCTAC	ТАТАСААТАА	5760
GAGAATGACŢ	СААААТТААА	AAGCTAGAGT	TCCACAATTG	GAAATATCTA	GCTTTTTTGT	5820
GGTTGAGAAC	TATTTTGTCT	CAGGCTCTTT	ATCTTCTATT	TAGGACAAGA	GTTTTTCTTT	5880
GGTCTTTAAT	GATAAAGAAG	GTATCAAAAT	TTCTAGTCTT	CTTTTTTACC	TTTAGTAACT	5940
ACTAATCCTG	CACTCAAACC	TAGAAGAGTT	AAACCTGCTG	CTACTGCTGC	TTGGCTTGCC	6000
GCACTACCTG	TACTTGGTAA	CTGGGCTTTA	TTAGTTTGAC	TAGCTTCACT	TGAATCAATT	6060
GGTTTTGTAT	CTGCTTTTTC	TGACACTTGT	GGTTTTTTAG	CTTCTTGAGC	TACTGGTTTG	6120
GTTCCAACCA	AGACGATGCG	GTCTGTCGGA	ACTTCTACCA	CTTCACGGAG	TTTTTCTTCC	6180
TTACTTCCAT	CAGGATTAAT	CGCTGTAAAG	ATACGTTCTT	TTCCAACTTT	TCCTTCTTGT	6240
TCTACACGAG	TTTCACCTAG	ATACAGTGTT	GAATCTTTTT	TCTCAACTGT	CTTGTATGCC	6300
AAATCTTTTT	CAACAAATTC	GATTTTTGGA	AGATCTTCTT	GTACAGCAGC	AACTGTCTTC	<b>63</b> 60
TCAGAAACTG	GTTTTTCCTT	AGTCAAGTGG	ATACGGTATT	CCTTGACTTG	TTTTCCACTT	6420
TCTGAAACGA	GGCGAACAAG	TACTGGAAAG	CTATCTTCTC	CACTATCTAC	CACAGTTGAA	6480
GCTACTTGAT	TGTTTTCTTC	AACTGAGACT	TTTGGCCGTT	GACCTTTATA	GGTAATTTGA	6540
TAGTCTTGAC	GATTTTCAGC	GAAATCAGCA	AGTTCTTTTC	CATCTACAAG	AATCTTTGAT	6600
TGAGTGCTTT	CTTGAGGCAA	TTCACTTGGT	GCAAGGAAGG	TCATCTCAAT	CATCGCAACA	6660
CCGCTCTTAT	CTGCTTTACG	CTCCATACGC	CATCTCATAG	CTTTGGCTTT	GATAGCTTTA	6720
AATGTTACGT	TGATTTCATC	ACCAGCTGCA	ATGTCTTTAT	CCGCACGATA	AGGAACAGCT	6780
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TAGGTTGGCA	CTTCAAACTC	TGGACCGACA	TAGCGTTCTA	AAACGAGTTT	AGATGGTGCA	6900
TCCGTACCAC	TATCTGCAAA	GAACTGAACT	TTTCCTTGTG	TAACAGTCCG	TTCTACAATC	6960
TTACCATTTT	CACGGAAAAT	CACACCCGCT	GATACTTCTG	GATTAGAAGA	TGGTGTTGGT	7020
GACCAGTTTG	TCCAACGACG	ATTTTCTGAA	TGATCTCCGT	CATTGAGATA	GTCAACGCGG	7080

TCATGAGAGT	TTTTGTCAAT	ATCATTGGTT	GCTGAAGCAA	AGGCCTGGTT	ACTGTTTTCA	7140
TCATAGTTAG	GGTTATCTGA	AAGAGTCTCA	CCAAGTTTGT	CTGTCACTCG	TACAGTGATC	7200
TCAGCAACAA	GGTTACTACC	AAGGACACGG	CCTCGAACAG	TAAATTGACC	TGCTTTTGTC	7260
AGATTTTCCG	CTGGAACTTC	TTCCCATTCA	ACTGTCAGGT	CTTTTGTTTC	GTAGCCGTCT	7320
TTACCTGTGA	AGTAAACTGG	AACCTTAGTC	GGCAATTCAA	GTGCTTGACC	TACTTGTAGC	7380
AAGCGAGCTT	GTTTAACCGC	AGCAACTGGT	TTATGAGAAA	GTAAGCTCTT	ATCCTTAGTG	7440
AAGTGCAGAC	GGTATTCTCC	TAAGATGTCG	CCATTTTCAG	CTTTCGCGAT	GACACGAACT	7500
GGCTCACCTT	CACGAACGCT	TGGAACGACG	GTAGCGAGAC	CATTGTTGCT	AACACTTGCT	7560
GTGACTGCCG	GAACTTTTCC	ATCTACAGAC	TCAAGGTAGT	AGTCTGTCAA	ATCAGGGTTG	7620
AAGTTTGCTA	AGTCTTTGCC	GTCAACTTGG	ATTCTTGTTT	GTCCTTGCTT	GGCTGCCGCA	7680
ACTTGTTTCG	CAAAGATTTG	TACCTCTGTG	ATAGACGTTC	CACGCTTGTT	ATCTGCTTTA	7740
ACCATGCGAA	TACGAACAGC	ATAGGTTTCA	ACTTTATCAA	AGCTAAAGTG	GTTCATTTCT	7800
CCAGCCTTGA	GTTGAGCAGG	GGCTTTTAGA	TTAGTAACTG	GTTTCCAGTT	GGCAGAATCA	7860
TTAAAGACAT	GGTCCTCATT	ACCAACAAAA	CTAGGGTTTT	TAGGAGCTGT	TGGGACAGTC	7920
TTACCAACAT	AATACTCAAT	CACATAAGAC	TTCGGTACAC	CAACTCCATG	GTCTTCATGG	7980
AATCCGACAC	TTAGATTATC	AACGGAGCGT	TTGCTCAAGA	TACCTGAATC	TCCAAACAGA	8040
ACACCGACTG	AAGCTTCTGG	ATTAGTACGA	TTCCAGTTTG	TCCAACGATT	GGCTGGTTGG	8100
TTATTGTAGG	AAATGAGCTT	GTCATTAACA	TTTGAAACTG	GGTCGCTTGG	ATTTGAGTCT	8160
GAAGCAAAGG	CAAGTGGCAA	TTCTGAACCG	GTCCATTGGT	CAGAAATGTT	TGCACCTTGC	8220
TCAGTTTGAG	CAGATACGCG	AACATGAAGT	TTAGTTGTTA	ATTGCGTACC	TTCTAAGCGA	8280
CCATTAACTG	TAAAGACACC	TTCCTTAGCG	TATTGCTCTG	GACGAATCGC	ATCCCATGCA	8340
ACCTTAGCTG	ATGAAACGTG	ACCATTTGAA	TCATATGTCC	GAACACTTTC	TGGTAATTGT	8400
GGTGCTTCTG	CGATTGGAGT	TGTCACACTG	ACTTCTTCAA	CTGAAACGAT	ACCTTCTACA	8460
GAGACTTTTG	CACGCGCTTC	AAGGTCAATT	CCTTCAACTT	TACCTAGTAC	TTCAAATGTT	8520
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AAACCTTTGT	CATACTCAAC	TGTTACTGTT	GCTGGAAGAC	TTGGTTCCTG	ATGCAAATCT	8640
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GTGAGTTCAA	CTTGGTCTTT	AGCTCCCTCA	TATTCAGCGT	TCAGAGTGAC	TGCTCCTGGC	8760
TTATGCAACT	CAAGCATTCC	TTTACGAATT	GCGACTTCCC	CTTCACCACT	TGTAGAGAAG	8820

936 GTTACTTTAT CAGCTGGTAA TACAGCTTGC GTTCCATCTT GATAGTGAGC TCGAACCGAC 8880 AATTTGACAG TTTGGTCTTC TTTGAGACTG TCAGCTTTTT CCACTTGCAA GCTCAAGTGA 8940 GCAATTTTTG GCGCTTCTTC AAGGAATTGA ATTGCATAGG TTTGAAGAGG GCCACCATCT 9000 TTAGGCTGAA TAAAGATGCT CGCACGCATG CCGTTTGCTG CGCTTGCTTG AAGAACTGTA 9060 ACAGCTGCAT TTTTAGCACT TGCTGTGACT TCTGGCAACT TAGCTCCATA AGCAAGAGTG 9120 CGGTATTGCA TTGGTTTTTG ACTAGTAAGA CCTGTTACTG CCTCACCACC AACCGTTACA 9180 GTTGGTACTG CAGGTGCCGC AGGATTGCCT TCTTCTACCA CAAGGGTTGC ATGAATTGGT 9240 TGACCTTCTA AATAACCGGT CGCTTGAATA CGAGAACCTG GAATTGCTAA CTTAGCTTTA 9300 TCTTCTTCGG CAATCTCCCA CTTGTCCACT TCATACTCTT CAACACTTCC ATCAATCAAA 9360 ACATAGGAAA CAGATTTGTC TACAGAATTC AAGTCAGTAT TTGGAGCAAT ACGTTTCACA 9420 ACTGGTAGCT CTGATTTAAG AGCAATCACT TCTACACGAG CTTCTACTTC TCGTCCGTCA 9480 GCCATACCTT TCACCGTTAC AATACCAGGC TTGCTCACAT CTACTGAAGA CCAGGTTACA 9540 GGACGTTCTG CACGGCTACC ATCACTGTAT ACAAACGGAA CAGTGGTAGG CATTTCAGGT 9600 GCCTCTCCAA TAATGGTCTG TACTTTTGGC ACTTCTGTCC CCAAAACAGT CTTCTCTTGT 9660 CCTTCTTTCT TACCAGTAAA GACAGTGACT TGGTTCGATT TCAAGAGATC AGAGTGGGCA 9720 GTCAGGGTGA ATTTCCCTGC TTGTTCAGTT GATTTGACAA TGGCAACACC TTTACCATTA 9780 AATGCTTTAC GAATCCAAGA ACCATCTGCT TGCGCCTTAT AGCGTTCACG GCTGGCTTGT 9840 TCTCCGTTAT CTACACCGAC CAGTTGACCT TGGCCATGCA ATTGGAAGCG AACCAGATTA 9900 TTAGCAGTTG GAACCACATT CCCCTGGCTG TCAACAATTT CATAGTAGAT GTAAGTCAAG 9960 TCTTTTCCAT CTGCTGCAAT CGCATGGTCT TCCTTAATAA GACGAACTGC CGCTGGCTTA 10020 CCAGCAGTCG TAATCTTATC TCGAGCAATT TCCTTGCCAG ATTCATCACG AGCAATTGCT 10080 TCCAAGGTAC CTGGTTGATA GGCAACTTTC CATTCAAGAT AAAGTTCATT AGCATTTGCA 10140 CCTTCTTGGT AAGTCCGCCC ATCGCTGGTT TGTTTTTTAT TGAAAGTCTT AAGACCAAGA 10200 GATTTTCCAT TCAAGAACAA TTCTACACTA GAAGCATTCG AATAAGCACG AACTGGAATC 10260 TTACCTTCTG AGTCAGCTAC TTTGGATGCT AATTCTTTGT TTTCCCAGTT CCAGTGAGGA 10320 AGAAGGTGTA CCATCGGTTT CTTCTTAACA GAAACCCATT GGCTTTGGTA GAGATAGAAG 10380 TCATGTTTTG GAATGCCGGC TGTATCTACG ATACCAAAGT AAGAGCTCTT AACAGGAGTT 10440 TGATTTTGGT TGTGCCATGG TGTAGGTTCA CCAATATAGT CCGTACCTGT CCAGATAAAC 10500 TGTCCAGCAT AGCCAGCGTT GTCACGGTCA AAAGTCCATG AAGCGGTTGC TGTTTTCCCC 10560 CAACCCACAC GATCATTTCC ATAATCTGAC TGTTCATAAT TACGCTCAGG TCCATTGCTA 10620

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GAATAGTTAA	ATCCAACAGC	ATCGAGTTCA	TCAGCAATTT	TCTCATGCCC	TCCGCTACCA	10800
TTACCGAAAC	GGAATTTATC	TGCTCCCATG	GTAACATAGC	GAGTCTTATC	AACATCCTTG	10860
ATAACCTTAA	CCAAACGTTT	AACAGTTGCT	AAAGAGTGGG	CATCACCATT	AGCTTCACCT	10920
ATTTCATTAC	CAATTGACCA	CATGAAGATA	GCAGGGTTGT	TTTTGCCTCT	TTCGACCATG	10980
GTACGTAGGT	CAAAATCAGA	CCATTTTTCA	CCTTTTCGAG	CTTCTGGGTG	AGTGGCATCT	11040
TTTTCAAAGA	AACGTCCATA	GTCATAAGGT	TTCTTGCCAC	CATACCACGT	ATCAAAGGCC	11100
TCTTCCTGAA	CGAGTAAACC	TAGTTCTGCT	GCGATTTGCA	AGGTTTGCTC	ACTAGCAGGG	11160
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TCTGCTTTAT	AGTTTTCTTC	TGCTCCAAGC	GCCCCATGGT	CGTGGTGCAA	GGATACTCCA	11280
TGGAATTTAA	TACGTTCACC	ATTCAAAGAG	AAACCTTCAT	TTGGAGTCCA	GTGATAGTAA	11340
CGGTAACCAA	ACAAATCCTT	CTTAGCATCA	ACCAATTGAC	CGTCACGGTA	AACACGCGTA	11400
ATCAATTCGT	ACAAGGCAGG	TTTGTCATTT	AAAACAGTCC	AGAGTTTTGG	TCTTTCAACT	11460
TCTAAAATCG	CATCTAGGCT	TGTTGATTCA	TGTGCTTTTA	AGGTACGACT	CGCTGTACGA	11520
ACTAAGCCTG	TTACAGCATG	ACCACCTCGT	TCAACGATTT	GATATTCGGC	TACAAGTTCA	11580
TGGTCTTTGT	CGTCCGTATT	GACGATTTTG	CTGGTCACAT	GAGTTTCAAC	CTTGCCATGT	11640
TGTTGTTCTT	CAAGTTTTGG	TGTTAAAATA	GTTGTCCCAT	TTTTCTCAAC	ATGCACCTTA	11700
TCTGTCACTT	GTAAAGTCAC	ATCACGATAG	ATACCACTTC	CTGAATACCA	ACGGCTACTT	11760
GGCTGTTTGT	TGACTGCATG	GACAGCAATC	ACATTCTCAC	GACCATCTTT	TTGAAGGTAT	11820
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CCACCTTCAT	TTTGTGCAGG	AGATTCATGA	TCGAAATCGT	TAAAGATACT	CCAGTCATAC	12060
GGTAAATCTA	ATTTTTTCCA	CGTAGATACG	TCTGCATCAG	GTTTAATGGC	TTCCTTAGAA	12120
TTTGCATTGA	GTTTAAAGTA	CCAATTTTGA	TTAAAATCCA	CTTTCCTGTC	TTCAATCATT	12180
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GAAGCTTGTG	ATTCTATCCT	TGGAGCTTTT	TCTTCCGGTT	TAGCAGACAC	TTTTTCCTCT	12300
TTTGGAGTTA	CGGCTTCATC	TTCTTTCTTC	TCAGATGCAA	TAGCCTCAGT	TGAACTAGGT	12360

938 TCACTTTGTT CTGTCCTTTC AACTATATTT TTAGTTTCCA AAGCTTTATC AGCCTTTTCT. 12420 TCTACTATCA TTTTTTCCTC TTTAGGTTTC TCAGCAGTAT GAGTAATAAG TGTTTCATCC 12480 GCATAAACTA CAGATTCTCC AGCTATATTT CCTCCTAATA AAACTGCACA AGTCCCAATC 12540 ATTACTGAGC AAGCTCCCAC AGCAAACTTA CGAATGCTAT AAACTCTTTT CCGATTCCAA 12600 TGGCCTTTCC CCATAAAACC CTCCTTATAT TATATTTAGT GCAGTTAGCT ACTACCAAAG 12660 CCCAAGTGGT ATACATGGTA TGACAACCTA GTTTCAACAA TTTACACTCT GCGAAAATCC 12720 AATTCAAACT TCGTCAGTGT CGCCTTGCCG TAGATATGAT TACTGACTTC GTCAGTTTCA 12780 TCTACAACCT CAAAACCATG TTTTGAGCTG ACTTCGTCAG TTTCATCTAC AACCTCAAAA 12840 CCATGTTTTG AGCTGACTTC GTCAGTTTCA TCTACAACCT CAAAACCATG TTTTGAGCTG 12900 ACTTCGTCAG TCTTATCTAC AACCTCAAAA CTGTGTTTTG AGCAACCTGC GGCTAGCTTC 12960 CTAGTTTGCT CTTTGATTTT CATTGAGTTT ATATTTTATA GGAGCGCATT ATTTTGCTTT 13020 TGCTGCGTAC TCTTCGTTAC GTTTGATCAT TTGTTTTCTG TACCAAGCAA AGATACCGAT 13080 ATAGAATACA AGGAAGACTA CTGCACCAAG GATTGCTTTG ATATCACCAG TTGTAGTGTT 13140 ACCANTIGTO CANCOAGAN GITTITOGAT TGGTCCTTCA AGAGTAGAGT GAGTAATCAN 13200 TTGAGTTTGG CTCACACCTT CTGGGAAGGC ACCTACACCT TTAGCAAGTT CTGTTGCAAA 13260 TGGTGCAATA AGTGTACCTG AAAGAAGGAA GAGTGGCAAC AAGAGTGTTC CGAAGATAAT 13320 ' CATACGGAGC AATTTACCAC GAGTTACAAC CAAGAGAGCT GGAGTAACAC CCATAGCGAT 13380 GATACCTGCA AGTGGCAAGA TACCATTTCC AACTTTTGAA AGAAGCACTG CTTCAATCAA 13440 CATGATTGGT GCAAGTACGT TGGCACAAGC CCAGATTTCA GCACGACCAG CGATGAATGG 13500 CCAGTCAAGA CCGATATTGA ATTTACGTCC TTGAAGACGT TTAGTAGCAA CGTTTGTAAT 13560 ACCTTGTGAT AGTGGTTCTA CGGCTGCGAT GAACCATGAA CCGATAAGTG AGAAGAGTTC 13620 CAAAGATACA CCGGCAGTCA AACCAAGAGA CAACCATCCT TTGATAACAA GACGCCATTT 13680 ATCTGCATCT GCAACACCTG CAATTGGATG TGGAGTTCCC ATAATACCGA TAACGATACC 13740 AAGGATGAAA CCGATGAAGA ATTTAGATCC CCAGAAACCG ATTTTCTTGT TCAATTTAGC 13800 AGCATCAAAG TCATATTTAT CAAGGCCTGG GAAGAATTTT TCAAAAAATCT TATCCAAAAC 13860 CATGATAACT GGGTTCATCA TGTAGTTCAT GTGAGTTGAT GTCATTGGTG ATGAACTTGG 13920 GGCGTTAAGA AGGTCATCAA ATGTAGGTTT CATCAAGTCA GAGTTGATAA TTTTCAACAC 13980 ACCGACAAGG ACGATAGCTG CTGTAGCAAT AAAGAGTGAA ACCCCTTGAC TCACACCATT 14040 GTTATCAGCA TACCATTTAA TCAAGAGACC TGTGATAGAC AAGTGCCAGA TATCAAAGAT 14100 ATCGACATCA AGTGTATCTG TTTTCTTCAT AGCTAGCATC ACTATGTTGA CAATCAACAT 14160

939

GATGAGCAAG	AAGTATAGTG	TCCAAGCAGA	ACCCCAAGTG	ATTGTAGCAA	GTGGTGCCCA	14220
ACCAACGTCG	GTAATACTCA	ATTGGATACC	AGTGTTTTCA	ACGAATTTTG	CTAGTGATGC	14280
TGAGAAAGCA	GTGTTTAGCA	TACCGATGAT	AGCACCGATA	CCTGTAAGAG	CGATGGCAAG	14340
TTTGATACCA	CCTTCAAGCG	CTTTGGAGAA	TTTCACTCCA	AAAAGTAAAG	CCAATACTGT	14400
CAAAATGATT	AACATGATGA	CAGGTCCACC	CATTTCTAAG	ATGGGATTGA	AAACCTTTCC	14460
GATTAGGTCA	AAGATTGCAT	CCATAACAGT	TCCTCCCTTT	TTGATGTTAT	ATGAATGTTA	14520
ACAAATTAGA	ATTAGCTTAA	TCCGTGTTCT	TTAATAGCTG	CTTCAATATT	GTCAAATACT	14580
GGAGCGCTCA	TTGCTGGGAT	ACGGAATAAG	ATTGGCCCAG	CTTCGATAAC	TGGGATACCT	14640
GGTTCAAAAC	CAAGGTCTGT	TGCAGCGATT	GGTGTAAAGA	TATCGTAACC	TTTCATAAGG	14700
TCTTCGTTTA	CATCTTTCAC	CATGACTGCA	TCACAGTGAA	CATCATAACC	ACGGTTTGAA	14760
AGTTCTTCTT	CTAGAGCACT	TTTAATTTGG	TGACTTGAGT	TAACACCTGC	ACCGCAGGCA	14820
GCAAGAATTT	TAATCATTTA	GATTTCCTCC	GATTTTATTT	TTTAATAGAC	AAGATTAAGC	14880
GGTTGCTTCA	GCAATGTAAG	TATAAAGGGC	TTCTGGTTCA	GAAATTTTTG	ATAGGTCTTC	14940
AAGATGACCA	TTTCCTGTGA	AGAAGTCCAT	TAACTGAGCA	AGAATGTTCG	TTTGACTTGA	15000
ACTTGAATTA	TTAATGATAA	AGAAGAGTAG	GGATACTTCT	ACTTCCTTAT	CAGGAGCTAT	15060
CATATTGTGA	AAAGTTATTG	GTTTTTCTAA	TCGAACAACC	ACCACTTTCT	CAGCTAGATT	15120
ATGAACAATA	TCTGTGTGAG	GAATCGCTAC	ATTTGGCAAG	TCCTTTCCTA	GAAATTCCAT	15180
ATCTAAACCA	GTTGGAAATG	ACTTTTCACG	CGTGATCAAG	GCTTCACGAT	AAGTTGGAGT	15240
GACAATTTCT	CGTTCTTCCA	ATAAAGTTGC	AACCTGATCA	AAGAGTTGTT	CTTGACTATC	15300
CGCTTCTAAG	CAAAACACAA	GGTTTTTGTC	AAAGAAATAA	TCTAATACCA	TAAGTTTTTC	15360
CGG						15363

#### (2) INFORMATION FOR SEQ ID NO: 140:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 28882 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 140:

TAAGACTATT TAATAGTGGA GTGAAATAGG ATACGAACAA ATTGATTAGG AAAATCAAAT 60 GAATTTATAG AAATCTTTTA GCAGTTATGT TATCCTATTC TAGTTTCAAA ACGCTATAGA 120

			940			
AGCAGCATTG	TGCTAGTCKA	GATTCAGTTT	ACTATACTAA	AACGAGTAGC	TTGAAATCAA	180
AAAACCCACC	CTCACAGGCA	GGTTTTATCT	GTATTATTCA	GCTAGATTAT	GCTTTACCTT	240
CTGAACCGAA	TACGTCGATA	CGTTCTTCAA	CCGATGCTTG	GATAGCTTTT	ACACCGTCAG	. 300
CCAAGAATTT	ACGTGGGTCG	AAGAGTTTTT	TCTTGTCGTA	TTCTGCTTCG	TTTGCTTCGT	360
AGTCACGAGC	AAATTTACGA	GTTGCGTTAG	CGAATGCGAT	TTGGCATTCT	GTGTTAACGT	420
TAACTTTGGC	AACACCAAGT	TTGATAGCTG	CTTGGATTTG	CTCATCAGGA	ATACCTGATC	480
CACCGTGCAA	TACGATTGGG	AATCCTGGAA	GAGCTTCTGT	CAATTTTTGC	AAGTGGTCAA	540
GGTCAAGACC	TTCCCAGTTT	ACTGGGTAAG	GACCGTGGAT	GTTACCGATA	CCAGCTGCCA	600
AGAAGTCGAT	ACCAGTTTCA	ACCATTGCTT	TAGCGTCTTC	GATTGGAGCC	AATTCACCTT	660
TACCGATGAT	TCCATCTTCT	TCACCACCGA	TAGTACCAAC	TTCAGCTTCT	ACTGAGATAC	720
CTTTAGCGTG	TGCTTTTTCA	ACAACTTCTT	TAGCCAATTT	AAGGTTTTCT	TCAACTGGAA	780
GGTGTGAACC	GTCAAACATG	ATTGAAGTAT	AACCAACTTC	GATACACTCA	AGTGCATCTT	840
CGTAGTGACC	GTGGTCAAGG	TGGATAGCTA	CTGGTACAGT	GATACCCATT	GATTCAACAA	900
GGTTAGCGAT	CAAGTTGCGA	GCAACTTTGT	AACCACCCAT	GTATTTAGCA	GCACCCATTG	960
AAGTTTGGAT	CAAAACTGGA	GCTTTTTTAG	CTTCTGCTGC	GCGCAAGATA	GCTTGAGTCC	1020
ACTCAAGGTT	GTTTGTGTTA	AATCCACCAA	CTGCATAACC	GTTGTCACGG	GCTGCTTGGA	1080
CAAATTTTTC	TGCTGAAACG	ATTGCCATTT	TATCAGGCCT	CCTGTATATT	TTTATGGGTC	1140
ATCCCATTTA	CATTGTTCAT	TTTATCACTT	TTTGCCAAAA	AAATCTAGTT	TTTCCCGCAG	1200
TTTCGATTGA	TTTTCTTCTA	ACTCCATCTA	TGTAAACCCT	TTCTCTCCCT	AGTCTTGGAC	1260
GACTTTTGGA	AAATCTATAA	AGAAGGTTAA	ACTATTCTCC	TCCATCTCGA	AACGATAAGC	1320
TAATTTTTCA	TGTTCTAATA	GACTCTTAAC	CACAAAGAGC	CCCATACCAG	ACCCCTTGAC	1380
CTTGCGACTG	GCATTGTCAG	AAAAAGACTG	GGCTAGTTTT	TCTTGTTCCT	CTGAGCTACA	1440
GCTATTTTCG	ATAAAAAGTT	CTCCTTCTCT	TTCTCCAATT	CGAACTAAGC	CACCTGGAAC	1500
AGAGTGCTTA	ATGGCATTGC	TGATGAGATT	AGAAAGAATC	AACTTCATAA	CTGATGGGTT	1560
TAGATAAGCC	TGCTGATGGG	TCAAACTATT	GTCTATCTGG	AGCTCTCTTT	CCTTGGCTAG	1620
CAAGGCATAA	TCTTTGACCA	GATTTTGCGT	CATCTGGAGG	AGGTCAATTG	TTTCCCTATC	1680
ATCTCGCAAT	TCCTGCACAG	AAGAGAGGGA	AAGTATCTGC	AGAACATGGT	GATTGAGTTC	1740
ATCCACAATC	CCCAAGGCAA	CTCCCAGATA	CTGGTCTCTA	TCCTTATAAC	GACCGATATT	1800
CTCTCTCATA	TTTTCGATTA	GGATTTTCAA	ACTAGCCAGC	GGTGTTTTCA	ATTCATGAGA	1860
AGCTCCTCGT	AGGAATTCGA	CCTTCATCTT	CTCCAGCTGG	AGAATGGCTT	CATTCTTTTC	1920

ATGCAAGTCC	GCAATAACAG.	TCAAGAGATG	CTGGTAGAGG	CTATTGATTT	GTTCCTTGAG	1980
ATTACCTATC	TCATCCTTAG	AATCCACGCG	CAATCGCACT	TGGGAATCCA	GGTCCATCAT	2040
CCGACGGGTC	ACCCGCTTGA	TTTCCAAAAT	CGGTGCAACA	ATAGTCCGAG	CGTAGATGTA	2100
GGCCACCAAA	AGGGAAATCA	GAAAGGAGGC	CAGCAAGGTA	TAGGGAAGAA	ACTGGAGACT	2160
GATTTGCTCC	GCTTCCTTTT	GTAAATCCAT	GGAAGCTAGA	AACTGGAGAA	TCATAGTACC	2220
ACCGTCTTGC	GTTTTCACCT	CGCGCTCCTC	AATAAAGAGA	GAGGTTGTCT	GGCGGTCTGT	2280
GTCCAGAGGA	AGACTGTCCT	TGACTTCTAA	CTTGTCCTCG	GTCATCTCAC	CTTTGACGGT	2340
CCCCTTGATA	TCACTAGTCT	GGGAATAČAA	GTCTAACACT	TGCTCGATAC	TCTGCCTATC	2400
TTTCCCTTCT	AGGGACTGGG	CAATGGCTGT	TGCCTTTTGA	CCAATGGTTT	CCTGACGATG	2460
ACTCAGATAA	GTCGAAGGAA	AAAGAAAATA	AATAGCTAAA	TGAAGGCAGA	TAACCAGAAC	2520
ACTAAATATC	GAGAAGGTAT	AGATAAATAT	CTTTGCAAAT	AAACCTGTTC	GTTTCATTTT	2580
CGCTCCAATT	TATAACCAAC	ATTGCGCACA	GTGAGGATAC	AATCCAAGTC	TAGCTTTTTC	2640
CGCAATTCCT	TGATATAAAC	ATCAATAACA	CGGTCAAAGG	GAACCTCATC	TGTCGCTTTC	2700
CAGACGGCAT	CGATAATCTG	AGATCGAGTC	AAGGCCCGGC	CTTCATTTTT	CACTAGATAG	2760
TCCAGAATTT	CCAACTCTTT	GGCATTGATA	GGCACTTCTT	GACCTGCGAG	GCTTGCACTG	2820
TAGCTTTCAA	AGTCCACCTT	GGTATCCTTG	TAAGAAAAGA	TTCGTCCTGT	ATCGTAGTAG	2880
CGCTTGAAAA	TCGCGTCCAC	CCTCACTTTT	AAAAGGGAGA	GGGAGAAAGG	TTTTTCCAGA	2940
TAGCCATCTG	CCAAAGAGGC	AAAGGCACTC	ATCTTGTATT	CCTCATCTTG	AAAAGCTGTC	3000
AACATCAAGA	CAGGAACCTG	ACTGGTTTTA	CGAATCTCAG	CTAGGACTTC	TAAGCCGTTG	3060
AGCTTGGGCA	TCTGGATATC	CAGTAAAACC	AGGGCCACCT	CATAGCTAGA	AAATTGCTCC	3120
AGAGCTTCCT	GACCGTCCGC	TGCCTCAATA	GTTTCATAGC	CACAATCCGT	CAAATAATCA	3180
CTGACCCCCT	CACGGATCAT	CTCTTCATCT	TCTACAATTA	AAATTTTCAT	ACTTTAACTG	3240
CTCTCTATTT	TTTATTTTTC	TTAGAATAAA	TACCTACCCT	ATTTTCTATT	ATAGTCTCTT	3300
GCTGGCCTTT	TGTCTGCAAG	CAACTGACCA	CTAGATAAAA	CGTTGTGAAA	TTCCTTTCTC	3360
ATAAATTCCA	TAACTTTAGT	ATATTATATT	TAAGCACTAA	AGTACAAAGA	AAGCAACTGA	3420
AAGCAATGAT	TTTCACCACT	GCTTTCGGAT	TTATTTTGAA	TTGTTAAATA	GCCATTCCTA	3480
TCCACTATTC	TTGAATAGAA	ACACAAGATG	CAATCTTTAT	TCTAGACTCA	TTTTTTCAAA	3540
TTTATTCACC	ATCCAGCAAG	AGCTCTTTTG	GTTGTTTTCT	AAGGAGATTG	CTTGAAGCAA	3600
GCGCCATAAC	GAGAACCACT	AGAACCAAGG	CAAGGACAAA	AATGATGATA	AAGTCTGATG	3660

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ጥርጥርልልጥርርል	AATCTCTACC	CTCC A C A ACC	942	GCCATCTACT	######################################	3720
				GGCAACACCT		3780
				AGCTAGGAAG		3840
CTAGAGCAGG	GATAGCAATC	AAGATAGATT	CGGTGATGAA	TTGACCCAAG	ATACTTGCCT	3900
GCTTGAGGCC	GATAGAGAGG	AGAATTCCCA	CTTCCTTGCG	ACGGGCGTTG	ATCCAAAGGC	3960
TGAGCAAGAG	GGCAAGGAGG	AGAACTGAGA	AGCTCAAGCT	ACCCCAGAAG	AGGAGGTTGG	4020
CCATCTTGTA	CATACCAGAG	ATAGATTGCT	CAAGAGCTGG	GTAGTTAGAG	GAGCTCTTGA	4080
CGAGTGTGTA	GCTCTTCCAG	TTGATACCAC	TGATGCCATT	CAACTCTTTC	ATAACATCAT	4140
CCAAGTTCTT	GTCTGCTGTT	ACAAAGAAGG	TTGCGTCCCC	ATAAATGGCT	GTGTCTTCTG	4200
TGTATCCATA	AAGTTTTGCA	GCAGTGTGAA	TGTCTGTAAT	AGCTGTGTTT	TCGTAAAGTT	4260
CTTGTGAGTA	GGTTACTGCT	GACTTATTAT	GACCATCAAA	GAGTCCCTTG	ATTGTCACTT	4320
CAACTGTTTC	CTTGGCTCCT	TTTTCATTAT	CTGCATCGTA	GATATTAGAG	TCCAGTTTAA	4380
CCTTGTCCCC	TACTTTCCAG	CCGTGTTTGG	CTGCCAAGTC	CTTGTGCAAG	AGGATTTTAT	4440
CCTTGTCGTC	GTTGGTTAAG	TGCTCTCCTT	CGACTAGTTT	ATAAGAACCA	GAGACAAACT	4500
TGTCTTCTTT	AGAGGAGTCA	TTGACACCTG	TAATCATCAA	GCTACTTCCA	AAACGCTTGG	4560
CACGATCAGC	AGTGAGATTC	TTCTTGGTTT	CTGGCGTTTC	AATCAGGTCA	TATCCAGTCA	4620
AATCTCCGAT	AGCGTTGATA	CGTTTGACAT	AAGACTCAAT	GGCCTTGTTT	TCGGTGATTT	4680
TTTTGATGTC	TTCACCCTTG	ATATTCCCAG	CACCACGAGG	CGTTCCTTGG	TTGACGCGAC	4740
GATTGATTTG	CATGGAGAAG	CTATTGGTGA	TATTTTTAAA	GGTCTCCTGA	GAAGCCTTGG	4800
CAGTAGCTCC	CTTGATTGAC	AAGCCGACCA	AACTCAAGCT	CGCCATGAGG	AGAATAATCA	4860
GGAAGATGAC	AATCGATTTG	AAAAACTTCC	TTGTAACATA	GGCAAATGCG	TTGTGTAACA	4920
PAGATTCCCT	TTCTAGATTT	TGTTTTAATC	АТТСТАТТАА	AATAAGCTCA	AATTATTTAC	4980
PAGTATTGCG	CGTTTCAGTC	AGTTTCTTAT	CCTTTAATTC	AAGTGTAATA	TCTGACGCTT	5040
GTGCCACTTC	TTTACTGTGA	GTTACGACAA	TCACACATTT	ACCTGTTTTC	TGGGCAAGTG	5100
ATTTGAGTAG	TTCGACAATA	TCTCCAGCAG	TTTTAGGATC	CAGATTTCCT	GTTGGCTCAT	5160
CAGCTAGAAT	AACTGGAGCT	TCTGAGACCA	AACTGCGAGC	AATGGCAACA	CGTTGCTGTT	5220
GACCACCTGA	TAACTGGAGA	ACATTCCGCT	TGATCTGGCT	TTCATCCAAA	CCAAGCTCAA	5280
				ATTTTCCAGC		5340
				GTGCATGCGA		5400
						2400

AGCCCTTCTT ACGAATATCC TCTCCTTGAA AAAGGATAGA ACCTTCAACA GGACTATCTA

GACCAGCAAG	TAGGGACAAG	AGTGTGGATT	TTCCTGCTCC	TGACTCCCCA	ATAATACTGT	5520
<b>AAAATTTTCC</b>	GGGTTCAAAA	TTATAATTGA	TCTGATATAG	GACTGCTTCA	GCAGTATTCT	5580
PATAACGGTA	GGTAACATCT	TGTAATTGTA	ATAAAGTCAT	GATTTCTCCT	ТСТТААСТАА	5640
ragatgataa	AATTTCTTTC	GGTGATTTTC	TAAATAAGAA	TAGGAAACAA	AGGGCTACAG	5700
ATAAGCAACT	AAGCAGAACT	AGAAAAACAT	AGGATTCTGC	AAAAGATAAG	ATGCTAGTTG	5760
ATAAACTGCT	TGCTTTGGCT	AGTGTATCTT	GTAAGCTTGC	CTGATCTCCA	CTTGCTAGTA	5820
GAGTTTGGAG	TAGGTAAGTT	GTGATTGCGT	TTCCTGCAAC	AAATGCTGGA	AGCAAAGCTC	5880
CAAGAGATAC	CAAAACTACC	TCTAAACAGA	ATTGTAGGAA	GATCGAGCTC	TTGCCTTTTC	5940
CAAGTGCAAG	TAAAATCCCC	ACTTCATAGA	CCCGTTCTCT	CAACCAGAGA	GACAAAACCA	6000
GAATTAAGGC	TCCAGCTCCT	GCTATCAACA	TCCCATAAAG	GAAGATGGTC	AGGAAGGTTT	6060
GGAAAGTTGC	AACTGAGTCT	TTGATTTGTT	CAAAAGCCTT	GTTTTCCTTT	TCGACTTGGT	6120
AGCCTTGATT	TTCCAAGGCC	AAGTTTTCTA	CCTGCTTCAT	GAGTCCGTCC	ATTTCCTTAG	6180
GATTTTCTAC	ATAGAAGCGT	GCTGCACTGA	CTTGAGCTTC	ACTATTGCCC	AAAAGGGTTT	6240
GGCTACTTTC	ATAGTCTGTA	AAGACTTGAT	TTTCACTGAA	GTCAGAAGAC	AAGCCTGTGA	6300
ATTTCTCTTG	TTTTTTACCA	GAAAAGATGC	CGATAATCTC	AAACTCTACT	GTTTGTCCTT	6360
rtccagattc	AGACTGACCA	GCATCCAAGC	CAATCTTGTC	ATGAAGCGAA	AGACCGTTCT	6420
TCTTAGCCAA	TTCTTCGTGG	ATAAGGATTT	TCTTGGAATC	CCCTTTTTGA	AGGTGTCGCC	6480
CTTCTTTTAG	ATTGAAAGCC	GAACTGGTAA	AGGTTACATC	CTTGGATGAA	TCCTCAAGAG	6540
CCGTTAAGCT	AACCAAGTTA	TTGTCTGCAG	CTGATAAATC	ATCACGCTCC	ACGCTCTGCT	6600
CGCCAGTCAC	TGCTTCCTTG	TCTTTTAGTT	TTGCGACCGT	CTCAAGTTCA	GGAGAGACAT	6660
PTTCCAGCCC	CTTAATCTTG	CTTACAGATG	CTAGGTCTGA	CAACTTGAAT	GTCTGACCAT	6720
PCTCTATCTT	CTTAATAGAA	AAAGATGTAT	TGAGTGATTT	ATAAAGATTG	CTTTCTACTG	6780
PTTTGTTGGA	CTTCATCAGA	GTCAAACAGG	CTGAAATTCC	GGCCAATAAG	ACCAATAAAA	6840
<b>TCAGAAATAA</b>	AATAAAACTT	CTCAGTCGCT	TTCTGCTGAC	ATAAGCCCAA	GATCTTTGGA	6900
<b>PTGGATTCAT</b>	TTGTCACCTC	CATATTTGTA	AGACTATTAT	AAAACCCAAA	TATGAAATAT	6960
ГТАТGAAATA	ССВАВАВАВАВ	ATATCGAGTA	GGGGATAATC	TCTAGCCCCT	CTCACACCAC	7020
CATACGTGCC	GTTCGGCATA	CGGCGGTTCA	ACTAACTTTT	AACGCATGTC	GTTCAAGGTA	7080
<b>АТААТССААА</b>	CACGAAACCA	GTCCACGTTT	TTCAAGGACT	GGTTTTGATA	TAGCACGTTT	7140
AAGTACCGAC	TTCTGAGCTA	CȚATAGTAGA	TTGAAACTAG	AATAGTACAC	CTCTACTTCT	7200

			944			
AAAATATTGT	TAGAAATCGA	TTTGACTGTC	CTGAACAATT	CGTCCTATTC	TTATTTCATT	7260
ттастатаат	TGATAGTGGT	CGCCCCAGCC	AGATACCTTA	TCTGCTATCC	ATTTAGGAAC	7320
CCCTAACTTA	AGCAATCCCC	ATAATCGTCT	CGATTTCTTC	TTCCATTGCT	TCCAGATAAT	7380
CACTCGTAGG	CGAGTACGCA	AGCGCTCATC	TATGCTAGTG	ACTATACTTT	TCATATTTAT	7440
AATTCATTCC	TTTCGTTTCA	CTCAAGGCAC	AACACAGAAT	GAAAAAGTGT	TGTGATCTTT	7500
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TAAGTGAGTG	GTACAGCCAC	TACCTCGCAT	ATTTTGTCAC	ATCATTTAAC	GGTACATAAT	7620
AAGTTGTACC	ATCTGAATAA	GTTGCTACAA	TATCATTTGC	ATGCTCTCCT	TCACCTTTAG	7680
CAAAGGTTGG	AGCTCCTGCT	GGATGATTTT	TATTTGCCTC	TTTCAATTTT	TCAATAATGG	7740
CATTTTTTCT	GTATCTTTTA	TATTATCAGG	ATTTTTCACT	AAGATTTTGT	CTGGATATGT	7800
CGGTTTAGCA	GAAACAATTT	TTACTGTTAC	TTCTTTTTTA	TTCGAAGCAC	TTGTCCAGTT	7860
TCCAGCATTA	TCTTTAGCAT	TTAATTTTAC	AGTAATTCCT	GAACTAGGAA	CTTCAGTAGC	7920
AGGTTGATTA	TCAACATTAT	TCAACTTTAA	TTTCAAAAGA	GCTGTTGCAT	CAGACGTTTT	7980
ATCAATCGTT	ATATATAATG	ATGAATTGTT	ATTATAAACA	GTTCCTTCAT	ATTTAGCTGT	8040
TTGTGAGCTA	CTTGAAACAG	AACTGAAATT	ATACCCACTA	CCTCCCTGAT	TATCTTCAAT	8100
GCTTACGTCT	AAATGAACTT	CCCCACTATT	ATTTGGCTTA	GCAACAACTG	TTATAGTAAA	8160
АТААСАТААА	ATTTGCATAA	ATAGATTAGG	GAAATCAAAG	CAGCTTCTAG	GAATGTTTTA	8220
GCAGTCACAG	TGTACTTTCC	CAGCATCAAG	CCACTATAAC	TCTGCACATA	AAAATGGAGA	8280
AGATGGCAAT	CCTCTTCTCC	AAATATTAAC	TTCTTTACAA	ACCAACTATA	GTTGACAAAG	8340
ААССТААААТ	CAATTGATAA	CACAAGGTCA	GGTCGGTCAA	CTCTTTCAAC	TGAAGCCCTG	8400
TCAACTCTTC	CCATTTATCA	ATCTTGTATT	GGAGAGAATT	GCGGTGCAGA	TAGAGTTGCT	8460
GGGCTGTTTT	AGTGAGAACA	GCACTATTTT	CCCAAAGAGA	GAGAATGATT	TCCTGAATCT	8520
GATCTTGATC	CAAAATCATC	TGGTGTAGAC	ATTCCTTGAT	TGGCTTCAAG	TCCACGAGTC	8580
TTTCTCCCAT	ACTCCAAAGA	TAGAGCTGAG	AAAAAGTATG	AACACCTTGG	TGACCCTGAC	8640
GCCACCATGT	CTTGAACAAA	TCCCGCTCAG	CTTTGATTAA	GTCTGATAGG	GCTTGATGTC	8700
CCGTCTGAGA	CCAAACCTGA	CCCAACATGA	TAGAAAGACG	AAGTCCAAAG	TCATACTCAA	8760
CCGCTTCAAT	CGTATCACTT	AAAATATCTC	TTACAGAAGT	GTATTTGTCT	TGTTGAAGCA	8820
CGAAAACATA	ATCCTGAGCT	CCGACCTGTA	GCACTGTCTG	ACAÁTTCGGA	AAAAGAGTCC	8880
GCATCATATC	TAGCCAAGAA	GCCAGATTTT	CCTGCTGAAA	ATAAGAAAGA	TGGCAATAAA	8940
CCAACTGAAT	СТТТТТАААА	ACTTGCGGTG	CCTGTCCCTT	GCCCTCAACC	AGATAGGAAT	9000

ACCAAGGGTT	TAGCGAACGA	GCCTGCTCCT	GCTGGGTCAA	AAGGGCAACC	AACTGCTTTT	9060
CACGCTCGCT	GAGCCCAGCT	TCCTCCAGCA	AAATCCACTG	CTGAGAAGCT	AAAGGGAGCG	9120
TGAGATAGCC	CTCTTTCTCT	ACTGGTTGGT	CTGAAATCCG	AGCCTCAGGA	AACCAGTCTT	9180
GTAGTTCTTT	TGCCCTCATG	TTCTAGCCCT	CCACTTTTTG	GATGCACCAT	GAAACCAAAC	9240
TCTCAAGACG	TTCCAGATTC	TCAGTCATAT	GGAGATAGCC	CATAACCGCT	TCAAATCCCG	9300
TGGACATACG	ATAAGTCACG	ACATCTGCAT	TTTTAGCCTT	TGTGTGGCTA	TTGGTATTGC ·	9360
GGCCACGTTT	GTAGATTTCT	TCTTCTTTT	CCGTTAGGAC	CTGCTCCTCC	AACATGAGAG	9420
CAATCAGGCG	AGCCTGAGCC	TTGGCTGACA	CGTACTTAGT	TGCTTCTTGA	TGGAGTTTAT	9480
TGGGTTTGGT	CATACCTTTG	AGGATGAGGT	GACGGCGAAT	ATACATAGAA	TACACCGCAT	9540
CCCCTCAAA	GGCTAGCGCA	ATCCCGTTAA	TGAGATTGAC	ATCAATCACG	TGTCCACCTC	9600
ACTCCATCCT	TGGTATCAAG	GAGCTTAATT	CCTTGAGTAA	CCAATTGGTC	ACGGATTTGG	9660
TCTGCTGTCG	CAAAGTCACG	ATTGGCACGC	GCCTCTTGGC	GTTTTTGAAT	CAAGTCTTCA	9720
ATCTCTGCAT	CCAAAACTTC	CTCAACAAAG	ACAATTCCAA	AAATTTCTAA	CATATCTGCA	9780
AGAGCTTGCT	TGACACTTGC	ATCATAGTTC	CCTGAGTTGA	TCCATTTGGC	CATTTCAAAG	9840
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GCATCGTGTA	CCGTAATGAA	GTTACCCAAG	GACTTAGACA	TTTTGACATT	GTCGATATTG	10140
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GCAATTTCAT	TGGTGTGGTG	TGGAAACTCT	AGGTCAGCTC	CACCACCGTG	GATATCAATG	10260
GTATCACCTA	AAATCTCTGT	CGACATGACT	GAACACTCAA	TATGCCAACC	CGGACGTCCA	10320
GGTCCCCAAG	GACTATCCCA	AGAAATCTCA	CCTGGTTTGG	AAGATTTCCA	TAGAGCAAAG	10380
TCTACAGGAT	TTTCCTTACG	AGCCGTTTCT	TCATCGGTAC	GACCTGAAGC	ACCTAGCTCC	10440
AAATCTTCCA	AGGTTTTATT	AGCCAATTTA	GCATAGTTGT	GGGATTTTTC	TACACGGAAA	10500
TAGACATCCC	CTTGACTCTC	ATAGGCAAAG	CCTTTCTCGA	TCAAGTCTTC	CACAAAACGG	10560
ATGATGTCTG	CCATAAACTC	CACTACACGC	GGATGGCGAG	TCGCAGGTTT	CACGCCCAAT	10620
GCCGTCACAT	CCTCACGAAA	GGCAGCGATG	TACTTATCCG	CAACCTCCTG	AGGCGTGATA	10680
CCTTCTTCCC	TGGCACGGTT	GATAATCTTA	TCATCCACAT	CTGTAAAATT	GGAAATATAG	10740

946 GCAACCTTAT ACCCACGGTA CTCAAAATAG CGACGAATCG TATCAAAAGC TACCGTCGAA 10800 CGGGCGTTTC CTACGTGGAT ATAGTTGTAC ACCGTTGGCC CACAAACATA CATCTTGATC 10860 TTGCCGTCCT CAATCGGGAC AAATCTCGC AAATCACGAG ACATGGTGTC ATAGATTTTA 10920 ATCATAAATC ATAATCAGGA AAGCTGAAAT CCAAGAACAA TTAGTTTCAT CACTAAAAGT 10980 TCAAGTAAAT TTCAGTCCGA ATATCTCTAC ACTTCGGAAT CCCTTGCTCC TTTCTCATTC 11040 AGATAAACCA CCTGAGTCTG TTTGACAAAG CCAATTTTTT CATACAAACG TTTGGCACCT 11100 ACATTGCTAT CTTCCACTGC AATCTGAAAT TCCTTGTCAT TTTGCTCAAT TAGTTGGTTG 11160 ACGAGGGATT TTGCTAAGTA GCTTCCATAG CCTTTTCCAC GTTCAGGTTC CAATATTGCT 11220 AAACCGTAGA GGTAATTCGT ATTAGTCGAT AAATCAACCG TACAAGTTCC AATAACCTGA 11280 CCAGCTTTTA ATAAAATATA TAGTCGGCTT TCTGGATCTT TCAGAGCTTC AGCGACATAT 11340 CTATCCACAA CTTCTCTCGA TTCATGTTCC TCTGAAAATG CCTGAAATTT TAATTGACTA 11400 ATTTGATCCT GATACGAACT ATCTGCTAAC AAAACTTCAA GATGGGAAAC ATTTGCTAAC 11460 GGATAAGGTC TTCTATCCTT ACCTAACCAA GTTTCTGTCT CTTCATCCTC GATTAGTCCC 11520 CAGTTACTGG CAAAGTCAGG ATGATTCTCT AAAAAAATAC GTTCTGTCTG AAAAGTGACT 11580 GACCGAATGG GGAAAGAAGC TGTTTCTCTC TCAAAACTAG TAAACAATGC ACGCGCAATC 11640 CCCTGACGGC GATGACCTGG ATGAACCAGT ATCGTCACTT CTACATCTTG GTCATCTGCA 11700 TAGACAGTTA ATAAACCAAC AAGTTCGCCT TTTTCATAAT AAAGGAAAAA GGCGGGCATG 11760 TTTGGGTCAA AATTAAGCAT GTTAGAGAGA TAGGGATCGC GATAGGTACC GTCATAGTTT 11820 TGGCAACAGT TAATTACTTT TTTCGCCTCA GATAGCTCCT CTTGGCTTAA CTTGTTTCTT 11880 GCTTGAATCA TATAGGTATC CTCTACAAAC CAGACGATCT GTGACTGGCA TCTTTAGCCT 11940 GCTCGAGTTT ATTGACATAA TACTCTCGTT TTTCTTCGAC TTCGTGAATG ACAGGCTCAT 12000 CTTTCTTACC ATGAAGACGG ACAATCTTGG CCGGAATACC GACAACCGTC ACGTCACTAG 12060 GTACATCTGC TACGACAACT GCTGCAGCAC CGACCTTGGC ATTTTCACCA ATTTCCACAG 12120 GCCCGATAAC TTGGGCATGG GCTGATATGA GGGCTCCCTT TCGTACAGTC GGATGGCGTT 12180 TGCCACAGTC TTTCCCTGTT CCCCCGAGAG TCACTCCGTG ATAGAGAAGA ACGCCTTTTT 12240 CAACAATCGC TGTCTCTCCA ATCACCAGAC CAGAACCATG GTCAATAAAA ACACCTGAAT 12300 CAATCTGGGC TCCTGGATGA ATCTCAATCT GAGTCCAAAA GCGCCAAAAC TGACTGTACA 12360 TACGAGCTAA TAGTTTGAAG CCGTGCTTCC AGAGAAAATG CGAGAGACGG TGGGCCGCCA 12420 AGGCCTTGAC ACCTGGATAA GTCAGCAAAA CCTCCAAAGT GGTGCGGGCC GCTGGATCAT 12480 TTTCTTTAC AATATCAATG GTTTCGCGCC ACCACCCCAT ACATTTCTCC TTTTCTTATT 12540

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949

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AGACCTCACC	GACGACAATT	TTTGAGAGAC	CAGCAGCTGG	TGATTCGACA	CCCTCTACCT	23220
CGATCCCTGT	AGTTGACATT	TTTTCAGCCA	ACTCTTGTGA	TGGCACATCA	ATGTCCACCA	23280
ATTCTTTTAA	CCATTTATAA	GATACAAGCA	TAATTTAGTT	CTCCAGAATG	ACAGTTGTCA	23340
CTCTAGTTCT	TTTCCTTTCC	TATCATTTCA	ATAGAAGAAT	CCTCTTCTTA	CCTTAATTTC	23400
TTTCTCAGTA	ACCAATCCGT	ATCTACTTTT	TGACCAACCA	TAAAATGATG	TTGGCTAAAT	23460
РТТТСААААС	CATATCGGTT	ATAAAACGCT	TGAGCTTTTG	TATTATGCTC	CCAAACACCT	23520
AGCCAAGCCC	AAGAAAAACT	ATTTTTTGTA	GCAAGTTCAA	GTGCGAATTC	AAACAGTTGC	23580
TACCTAGTC	CAAATCCTTG	GAATTTTTGT	AGCACATAGA	GACGTTGAAT	TTCAAAAGCG	23640
CCTCTAATT	CTCTCTCAGT	TTGAGCACTT	CCCCAGTTGA	CTTTGAGAAA	ACCAGCTATC	23700
CCTCCTCAT	GCATAATGAA	ATAGGTTTCA	GAGTCAGGAT	TTCCCAACTC	AGTTGACAAA	23760
STTTTCAGAC	TATAAGCCTC	TTCAAAGTAT	TCCTGTAACT	GCTCTTCCGT	ATTATCATAC	23820
GCAAAGGTTT	CACGAAAGGT	TTGTTTGGCA	ATTTTAGCCA	ACACCTCAAC	ATCTGCCATT	23880
CTACTTTTC	TAATCATTAT	TTAAACTGTT	CTGAGAAGCG	GACATCTCCT	TGGTAGAATC	23940
CACGGATATC	GTTGATTCCA	TAACGGAGCA	TAGCTACACG	CTCTTGTCCA	AGACCAAAGG	24000
CAAAGCCAGA	GTATACAGTC	GCATCGATAC	CACTCATTTC	AAGGACACGT	GGGTGAACCA	24060
PACCGGCCCC	CATAATTTCG	ATCCAACCTG	TTTTCTTACA	TACATTACAG	CCTTCTCCAC	24120
CACACTTGAA	GCAAGAAACA	TCCACCTCAA	CAGATGGCTC	TGTGAATGGG	AAGTAAGATG	24180
BACGCAAACG	AATTTGACGC	TCTTCACCAA	ACATTTTTTG	GACAATCAAC	TGAAGCGTTC	24240
TTGAAGATC	AGCCATAGAG	ATATTTTTCC	CAACTACCAA	GCCTTCGATT	TGGTGGAATT	24300
GTGACTGTG	GGTCGCATCG	TCCGTATCGC	GACGGAAGAC	ACGCCCTGGC	GAGATCATCT	24360
CAAAGGACC	TTTAGAAAAA	TCATGGGCAT	CCATAGCACG	CGCCTGAACT	GGAGACGTGT	24420
GGTACGGAG	CAAGATTTCT	TCAGTGATAT	AGAAAGTATC	CTGCATATCA	CGAGCTGGGT	24480
GTCTTTTGG	AAGGTTCATA	CGTTCAAAGT	TATAGTAGTC	TTGCTCCACT	TCAAAACCAT	24540
CACGACTTG	ATAACCCATA	CCGATGAAGA	TATCTTCGAT	TTCTTCACTG	GTTTGTGTCA	24600
AACGTGACG	GTGACCAGTC	GCAACTGGAC	GACCTGGAAG	CGTCACATCT	ATACTCTCGC	24660
PAGCCAGTTG	AGCCGCGACT	TTCTTTTCTT	CCAAGAGCTT	AGCTGTTTCT	TCAAAAGCAG	24720
AGTCAAGAC	ATCACGAGCT	TCATTGACGT	GTTTCCCGAT	GATTGGACGC	ATCTCAGCAG	24780
AACATCTTT	CATCCCTTTG	AGGATTTCAG	TGAGCGAACC	CTTTTTACCA	AGGACAGAGA	24840
CACGCAAATC	TTGCATCTCT	TTTTCATTTC	CAGCAGTAAT	CTGCTTCAAG	CTAGCCAGCG	24900

TTTCTTCGCG AAGCGCTTTT AATTGTTCTT CAATAGTTGA CATATTTCCT CCATCAGTCT 24960 CTCGTAGATA AAAAGAAAAC CACATGCCAA AAACTCCACT CGGAGCGTTG ACACGCGGTA 25020 CCATCCGTTT TCATCTGACA AGTCAGACCT TCATTTCTAA ATCCATGCGC AAGTGAATTC 25080 ACCCAGCTTT CATATAGAGA GCTTGCAGTC ACGGCTCTCC TCCCTGATAT ACTTCCCTTG 25140 GGCTACTAGT CTTTCAGATT CCTATTCAAT TACTACTTAG TTTATCAGAT TTTTACCATT 25200 CTTGCAAGAC CTATCTTACT TCTGCTTGTT AGCTTATTCT TATCTAAATT TATATAAACC 25260 TTATCTAAAT TAACTATTA TAATTTTGT AACAAAATTA AATTAATTGA CACTCCCCTA 25320 TAAAATAAAG AAGTTTAGAA TTTAATGTCT TCCAAACTTC TTTATTCCAT ATTTAATGAA 25380 ATGCCACCTT AACCGTGATA ATAGCTAGTC ATCAATAAAA AACTATTTGA ATAAGGATTC 25440 TCCATTTGAT TCAATCACTT CTTTATACCA AGTAAAAGAC ATTTTCTTAT ATCGATTTAA 25500 TGTACCACTT CCATCATCGT TTCGATCAAC ATAAATGAGA CCGTACCTTT TAGAAAGTTG 25560 TGCAGTGGAC ATAGAAACAC AGTCAATACA TCCCCAAGAC GTATAGCCCA TAATTTCAAC 25620 ACCATCCTGT AGAGCTTCAG CAACTTGCAA TAAATGTTCT TTCATATACT GAATTCTATA 25680 ATCATCTTGG ACGGTTAAGT TATTAAGTTC ATCTTTTATT AGTTGATCTT TAGCACCTAA 25740 TCCATTTTCT ACTATAAATA ATGGGATTTG ATAACGGTCA TAATATCTAT TTAAAATTAT 25800 ACGTAGTCCA ATTGGATCAA TTTGCCATCC CCACTCTGAA GACTCTAAAT AAGGATTTAC 25860 TAAACCACCA ATAATATTCC CTTCTCCTGA ATTATACTGT GTTGGAAGAG CAGATTGAGT 25920 CACACTCATG TAATAGCTAA AGGATAAAAA ATCTACGGTA TAATTTTTTA ATAACTCTGC 25980 ATCTTCAGCT GCAAACTCTA TGTTAATGTC ATTTTCCTTA AAATATCTTT TTGCATAATT 26040 CGGATAATAA CCTCTAACAT GCACATCTGA AAATAGATAA TTTAGATTCT CATACTCATG 26100 AGTCGCCCAT ACATCTTTTG GATTTGGAGT CATTGGATAA GCTGGCATAG CTAATACCAT 26160 ACATCCCACC TTAAACTCTG AATTAATCTC ACGAGCAATT TTTGTAACCA AACTTGAGGC 26220 GACTAATTCA TGATGTATAG CTTGATATAA TTCTTGTTTC GAAAGATTCT CCTTAGGTAT 26280 ATCTATTCCT CCACTAGTAA ATGGTAATTC CAAAACAGAG TTTACTTCGT TAAATGTAAG 26340 CCAATATTTA ACTITATCTT TATACCTTTC TAAAACTGTT CGAGCAAATT TTTCATAAAA 26400 ATGAATCATT CTCCTATCAA CCCATCCATG ATATTTTCTT GCTAAATATA ATGGAGTCTC 26460 ATAGTGTGAA AGAGTTACAA GTGGTTCTAT CCCGTGAGCA TGTAGTTCAT CAAACAATTC 26520 ATCATAATAT TTCAACCCAG CTTCGTTAGG TTCTTCCTCA TCTCCTTTTG GAAAAATTCT 26580 ACTCCATGCA ATAGAAGTAC GAAAAACATT AAAGCCCATT TCAGAAAACA AGGATATATC 26640 TTCCTTATAT TTATGATAAA AATCAATACC TATCAATTTT AAGTTATCTT CTGTAGGATT 26700

TTCTGTTGCT	TCTCCTAATC	CACCTTTGGG	TAACACATCC	TGAACTGATA	AGCCCTTACC	26760
ATCTTCATTA	TATGCTCCCT	CTACTTGATT	AGCTGCAACA	GCTCCACCCC	AAAGAAAATC	26820
ATCTGGAAAA	ATGGTCATAA	CTTTCCTCCA	TTATAATATT	ACCAGTAATT	CCTTAGAATG	26880
CTCGATTGTC	TGATTATTAG	GTAATACTAA	TACATCTAGA	AAATCATTGG	TATTCGTTAC	26940
AATTACTGGT	GTAACTGTTT	CGTAGCCTTT	AGTCTTGATT	AAATTCAAGT	CCATTTCAAA	27000
AATCAACTGA	TTTTTGAAAA	CTCTGTCTCC	TTCTTCTACA	TGACTAATAA	AACCTTGACC	27060
TTTTAGCTCA	ACAGTATCTA	ATCCAATATG	AATTAGTAAC	TCAACACCCT	CATCACTCTT	27120
CAATCCAATT	GCGTGCTTAG	TCGGAAAAAT	ATTTGTAATT	TTCCCATCAA	ATGGTGCATA	27180
AACCTTACCT	TCACTTGGGA	TAATCGCTAC	TCCGTCTCCA	ATTAGTTTAT	CTGAAAATGT	27240
TTTATCCTGG	ACATCGCTTA	ACGGAATGAT	TTCTCCTGAT	ATAGGAGAAA	ATATCATTTT	27300
TTTATTTGAA	ACTCCAGCTT	СААСТТСТАА	ATTGCTAGAA	СТСТСТТСТТ	CATCGATTCC	27360
AAATATATAA	GCTAATACAA	AGGTAATAAC	AACCGAAATG	ACCGCCACAA	TTAAAGCATT	27420
TACAATATTT	GATGGCACAT	CAGAATAAAT	AAATTGAGGC	AACGCTATCA	AAGATGGGAC	27480
AGCAAATAGA	TATGCTTTAA	CACTAGTAAG	ACCTGCAAAT	AATCCCGCTA	ATCCACCACC	27540
AATCATAGCT	GCATAAAGCG	GTTTTTTATA	TTTTAAAGTC	ACACCATATA	ATGCAGGTTC	27600
GGTAATCCCT	GCAAGTAAGG	CTGAGAAACC	TGCTGCAAAA	GCAATTTGTT	TTGTATTATT	27660
ATTTTTACTC	TTTAATGCAA	CAGCCATCGA	AGCAGCCCCT	TGAGCTAAGT	TTGACCCTAA	27720
CATTGCTGGA	AGAATTAATA	CGTCTGGAGT	AGCAATAGAT	GCCGCCAAAA	AAATAGGTGC	27780
AAAAGCCCAA	TGCATTCCAG	TCATAACAAT	AAATGGCATA	ATAGCACCAA	GAATAGCTAA	27840
TGTAAGCCAT	CCAGCTACAC	CATACATTTG	CCCAACTAGA	TTTGATAATC	CTTCACCAAC	27900
AATTACTCCA	ATAGGTCCGA	CTACAACTAA	GGCAATACAG	CTTGATACTA	ATAATACTAG	27960
CGTAGGTTGC	AAAAAACTCT	TAGTAATAGC	TAGTGTTAAT	TTAGCAATTA	TTTTTTCAAT	28020
ATATTTCATC	AACCAAACCA	TAATAAGAAT	TGGAACGACT	GATGAACCAT	AACTAGCTGG	28080
TGTCACAGGT	GCACCAAATA	AACTAAGAGG	ATTCCCTGAT	TGCACCATTT	GAACAAAATT	28140
TGGATGGAGA	AGTACACCTG	CTACAGACAT	AGCTAATGTA	GATGTTACTT	TTAATTTTTG	28200
TGATGCAGAA	TAAGCTAATA	ACAGCGGTAA	GAAATAATAT	GGAGCATCCC	CAAAAAATGT	28260
CAAAAAAGCA	ATAGTCTGAG	AATCTGATTG	CAATATACCA	AGCATTGGTA	AAATGATTAC	28320
CAAGACTTTC	AACATACCTC	CCCCTAACAT	TGCTGGAATG	ATTGGAGTCA	TGGAACCAGC	28380
GATATACTCA	ATGATTCTTT	СТААААТАТТ	CCCTTTGTGC	CCTTGAACAA	CTGAATCGGA	28440

				956			
TTC	AAAATTG	CCAAGTTTAA	CGAATTCTTT	ATAATAATTA	GCTACATCAT	TACCAAGTAT	28500
AAT'	TTGATAT	TGTCCATTCT	TTTTCATAAT	ACCTATTACA	CCTGGTATCT	TCTTCACATC	28560
ATC	ATCATTG	ACTAAATTTT	CATCTTTTAA	TTCTAATCTT	AAACGTGTTA	CACAATGGGT	28620
AAC	TCTATTG	ACATTTTTTT	CACCTCCAAT	TACATCGAGG	ATTTTTTGTA	CCGTATCTTT	28680
ATA	ACTCATG	GTATTCTCCT	ATTCTATTAA	TCTAAATTTT	TTGTTAAGCG	ACGAATATGA	28740
GCC	АТСАААТ	AAACTAATTC	ACTAGAAGTC	AGCAAATAAT	TGTACTCCGT	TTGTATAAAC	28800
ATT	GCTACCT	GTTCACCACA	TTCATATTCT	CTAGGATATT	TATTTTTCAT	TAATGCTAAC	28860
AAG'	PCTTCAT	CATCATCGTC	GG				28882

## (2) INFORMATION FOR SEQ ID NO: 141:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 12835 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 141:

GCCTATGTCT	TTTTCAAAAA	AATGCTTGAC	TTGAGACGGG	AACTAGGGAA	GTCTAAAGGC	60
GGAAGGCATT	GATTTATACT	CTTCGAAAAT	CTCTTCAAAC	CACGTCAACG	TCGCCTTGGA	120
TTATATATGT	AACTGACTTC	GTCGATGCTT	ATCTACAACC	TCAAAGCAGT	GCTTTGAGCA	180
ACTTGCGGCT	AGTTTCCTAG	TTTGCTCTTT	GATTTTCATT	GAGTATTATA	TTACTTTCTA	240
TTTGTAGGAG	GTGGCTTATG	AAGATTCCTC	TCTTAACTTT	TGCAAGGCAT	AAATTTGTTT	300
ATGTCTTGCT	TACTTTGCTT	TTTCTTGCTT	TGGTTTATCG	TGATGTTTTG	ATGACTTATT	360
TCTTTTTTGA	TATTCATGCG	CCCGATCTAG	CTAAATTCGA	TGGACAAGCA	ATTAAAAATG	420
АСТТАТТААА	ATCAGCATTA	GATTTTCGTA	TTCTCCAGTT	CAATCTAGGT	TTTTATCAAT	480
CATTTATTAT	TCCAATCATC	ATTGTTTTGC	TAGGTTTTCA	ATATATTGAG	СТБААААТА	540
AAGTTTTACG	ATTGAGTATT	GGAAGAGAAG	TGAGTTATCA	AGGGTTAAAA	AGAAAGTTGA	600
CTTTGCAAGT	TGCAAGTATC	CCTTGTTTGA	TATATTTAGT	GACTGTGCTG	ATAATTGCAA	660
ттатаасста	TTTCTTTGGG	ACTTTTTCTC	CTCTTGGATG	GAATTCTCTA	TTTTCTGATG	720
GAAGTGGTTT	ACAAAGACTC	CTAGATGGAG	AGATAAAAAG	CTATTTGTTC	TTTACTTGTG	780
TCCTACTAAT	CGGTATTTTC	ATCAATGCAA	TCTATTTTTT	ACAAATAGTT	GATTATGTGG	840
GGAATGTGAC	TCGTTCGGCA	ATCACCTATT	TGATGTTTCT	TTGGCTTGGT	TCTATGCTGC	900
TTTATAGTGC	CTTGCCTTAC	TATATGGTTC	CTATGACGAG	TTTGATGCAA	GCTAGCTATG	960

GGGATGTAAG	TTTGATGAAA	CTCTTTACTC	CTTATATCCT	TTATATTGTC	CCTTACATGG	1020
TGCTTGAAAA	ATATGAAGAT	AATGTTTAAG	AATTTTAACA	ATATTTTGCT	AAATAGAAAG	1080
ATTGTTTTAC	TACTTCGTAT	AGTTCTGATG	ATGATTTTGA	TAAACCATCT	ATTGTCAACA	1140
GCGGTTCAAA	AGCAGGATGC	TGTTATCTTT	TTCAAGAGAG	AATTGATTTC	AATTTTTTCC	1200
TATAATGACT	ATTCTGAAGC	GAATTTAGAA	ATCCCCAAAC	TATTGTTAAA	CCTTTCGCTT	1260
TTCATGGTAG	GATGGCTCTC	TGTCATTTTA	CTTGAAAGTG	ATTTGGCAGA	CCATTACCAT	1320
CACTTGATTC	GCTATCAATC	AAGCTCCTTT	TTCGATTATA	CAAGGAAACG	ATTGGTTGTC	1380
атттстааат	TTTTTACTCA	AGATTTGTTT	GTCTGGTTTC	TTGGTTTACT	TCCTCTAGGA	1440
ATTCATTTCA	AAACAGTCGC	ACTTTTCTTT	TTACTTGCTC	AGTTAATGAT	GTTGTACTTA	1500
CTACTGTCTT	ATCTGATAGC	ACTGATTAGT	GCGGGCGCTG	GTTTTTCCTT	TTTTCTCTAT	1560
TTTTTAGCAT	TTGTGGGACA	AGAATGGATG	ATGGATCATA	TTGTAACAGT	GTATTTAGTA	1620
CTCTTAAGTT	TATTAGTTAT	GTTGATTGTT	AGTCGCTTGG	AAGAGAAATT	TAAGAAAGGA	1680
TAAACGATGA	GACTTGAAAT	TATAAATGGA	CAGAAAATTT	ATGGGAAAAG	ACCTATTTTA	1740
AATCAGTTGA	ATTTGGTGTT	TCAATCAGGA	AAAATTTATG	GACTTAAAGG	TGATAATGGA	1800
TCTGGCAAGA	CGGTTCTTTT	AAAGATACTT	GCTGGTTATA	TTAAGCTTGA	CAAAGGAAAA	1860
GTTCTTCAAG	ATGGTAAAGT	TTACGGGGTA	AAAAATCATT	ATATTCAGGA	TGCAGGAATT	1920
PTAATTGAAA	AAGTCGAGTT	TTTATCTCAT	TTATCCCTGA	GAGAAAATTT	GGAACTGTTA	1980
AGGTATTTTT	CATCTAAAGT	TACGGAAAAA	AGAATTGCCT	ATTGGATTCA	ATACTATGAT	2040
PTACAGGAAT	TTGAAGACAT	TGAATACCGT	CATTTATCCT	TAGGAACAAA	GCAAAAATG	2100
GCCTTGATTC	AAGCCTTTAT	TTCCTCTCCT	TCTATACTCT	TTCTCGATGA	ACCTATGAAT	2160
GCTTTGGATG	AGAAGAGTGT	GAGGTTAACC	AAACAGGTCA	TTTTATCTTA	CCTGAAAAA	2220
GAAAATGGTC	TGGTTATCCT	GACGTCGCAC	ATATCGGAAG	ATATTTCAGA	CCTTTGTACA	2280
GATGTATTAG	TTGTCGAAAA	TGGACATATA	CAAATGTAAA	GGATATACAA	TCCTAGGAGA	2340
IGGCTTATGG	CACATCTAAA	ATCATTTATT	ACACGATATT	CCAAGGTTTA	TATTGGTTTA	2400
GTTCTGCTGA	TCTGGCTGTC	TTTCTTCTTT	ATCCCTTGGG	ATAAACCACT	TCTGGGGATA	2460
AGGATTGACA	TCTTCATCAT	ACAGAAAATC	TTGCTAGCTT	TTGGAATTCT	GTCCATTCTC	2520
ATGGCCTTGC	TGTCCAAGAA	AGTCAGTCTC	TTTGTTTTTG	GACTGATTTG	CTGTCTTTCT	2580
CTTTGGATTA	ACTTATTTAT	CACATTTGCC	ATTTTGCCGA	TTTTTGGCAA	TTAAACAGTC	2640
ልጥል ል ል ል ው ር ጥር ር	САСАССТТАС	СФТСАВАВСТ	<b>አ አ</b> ርርጥር ጥጥጥ	ጥር ርጥጥጥጥር a a	ል አጥርርርር ልጥጥ	2700

			958			
CTTCCTTGAA	AATAATCAGT	AATTGTGCTA	AAATTAAAGG	AACATTCTAA	AATATTCGGA	276
ATTTAAAGTA	AGGAAAAACA	TGGCTAATAT	TTTAAAAACA	ATTATCGAAA	ATGATAAAGG	282
AGAAATCCGT	CGTCTGGAAA	AGATGGCŤGA	CAAGGTTTTC	AAATACGAAG	ACCAAATGGC	288
TGCTTTGACT	GACGACCAAC	TAAAAGCAAA	AACAGTTGAA	TTTAAGGAAC	GTTATCAAAA	294
TGGAGAATCA	CTGGATTCAT	TGCTTTACGA	AGCATTTGCG	GTTGTCCGTG	AAGGTGCCAA	300
ACGTGTCCTA	GGTCTCTTCC	CTTATAAGGT	TCAGGTCATG	GGGGGGATTG	TTCTTCACCA	306
TGGTGACGTG	CCAGAGATGC	GTACAGGGGA	AGGGAAAACC	TTGACTGCGA	CCATGCCGGT	3120
ATACCTCAAT	GCCCTTTCAG	GTAAAGGGGT	TCACGTAGTT	ACGGTTAATG	AATACCTGTC	3180
AGAACGTGAC	GCGACTGAGA	TGGGTGAATT	GTACTCTTGG	CTTGGTTTGT	CAGTAGGGAT	3240
TAACTTGGCT	ACCAAATCTC	CAATGGAGAA	AAAAGAAGCC	TATGAGTGTG	АТАТТАСТТА	3300
CTCAACTAAC	TCAGAAATCG	GATTTGACTA	CCTTCGTGAC	AACATGGTCG	TTCGCGCCGA	3360
AAACATGGTA	CAACGTCCGC	TTAACTATGC	CTTGGTCGAT	GAGGTTGACT	CTATCTTGAT	3420
TGACGAGGCT	CGTACACCTT	TGATTGTATC	AGGTGCCAAT	GCGGTTGAAA	CCAGTCAGTT	3486
GTATCACATG	GCAGACCACT	ATGTAAAATC	TTTGAACAAA	GATGACTACA	TCATCGATGT	3540
GCAGTCTAAG	ACTATTGGTT	TGTCTGATTC	AGGGATTGAC	AGGGCTGAAA	GCTACTTCAA	3600
ACTTGAAAAC	CTCTATGACA	TCGAAAACGT	GGCTTTGACT	CACTTTATCG	ATAACGCCCT	3660
TCGTGCCAAC	TACATCATGC	TTCTCGATAT	TGACTATGTG	GTGAGCGAAG	AGCAAGAAAT	3720
CTTGATTGTC	GACCAATTTA	CAGGTCGTAC	CATGGAAGGT	CGTCGTTATT	CTGATGGATT	3780
GCACCAAGCT	ATTGAAGCCA	AAGAAGGTGT	GCCAATCCAG	GATGAAACCA	AGACATCTGC	3840
CTCAATCACG	TACCAAAACC	TCTTCCGTAT	GTACAAGAAA	TTGTCTGGTA	TGACGGGTAC	3900
AGGTAAGACT	GAGGAAGAAG	AATTCCGTGA	AATCTACAAC	ATTCGTGTTA	TTCCAATCCC	3960
AACAAACCGT	CCTGTTCAAC	GTATTGACCA	CTCAGACCTT	CTTTATGCAA	GTATCGAATC	4020
TAAGTTTAAA	GCGGTTGTCG	AAGACGTTAA	GGCTCGTTAC	CAAAAGGGTC	AACCTGTCTT	4080
GGTTGGTACA	GTAGCGGTTG	AAACTAGTGA	CTACATTTCT	AAGAAATTGG	TTGCAGCTGG	4140
TGTTCCTCAC	GAAGTCTTGA	ATGCCAAAAA	CCACTATAGA	GAAGCCCAAA	TCATCATGAA	4200
TGCTGGTCAA	CGTGGTGCCG	TTACCATCGC	AACCAACATG	GCGGGTCGTG	GTACCGACAT	4260
CAAGCTTGGT	GAAGGTGTTC	GTGAACTTGG	AGGACTTTGT	GTTATTGGTA	CAGAACGTCA	4320
TGAAAGTCGT	CGTATCGATA	ACCAGCTTCG	TGGACGTTCA	GGTCGTCAAG	GAGATCCAGG	4380
TGAGTCACAA	TTCTACCTAT	CTCTTGAAGA	TGATTTGATG	AAACGTTTTG	GTTCTGAACG	4440
CTTGAAGGGA	ATCTTTGAAC	GCTTGAACAT	GTCTGAAGAG	GCCATTGAGT	CTCGCATGTT	4500

GAC	CGCGTCAG	GTTGAAGCAG	CTCAGAAACG	TGTCGAAGGA	AATAACTACG	ATACCCGTAA	4560
AC#	AGTCCTT	CAATACGATG	ATGTCATGCG	TGAACAACGT	GAGATTATCT	ATGCTCAACG	4620
PT?	CGATGTC	ATCACTGCAG	ATCGTGACTT	GGCACCTGAA	ATTCAGTCTA	TGATCAAACG	4686
CAC	GATTGAA	CGTGTCGTTG	ATGGTCATGC	GCGTGCCAAA	CAAGATGAAA	AACTAGAGGC	474
LA.	TTTGAAC	TTTGCTAAGT	ACAACTTGCT	TCCTGAAGAT	TCTATTACGA	TGGAAGACTT	480
GTC	CAGGCTTG	TCTGATAAGG	CCATCAAGGA	AGAGCTTTTC	CAACGTTCCT	TGAAGGTTTA	4860
CG.	ATAGTCAG	GTTTCAAAAC	TACGCGATGA	AGAAGCAGTT	AAAGAATTCC	AAAAAGTTTT	4920
GAT	TTCTACGA	GTGGTGGATA	ACAAGTGGAC	AGATCATATC	GATGCCCTTG	ATCAATTGCG	4986
ra <i>r</i>	ACGCGGTT	GGACTTCGTG	GCTATGCTCA	GAACAACCCT	GTTGTTGAGT	ATCAGGCAGA	5040
AGC	STTTCCGT	ATGTTTAATG	ATATGATTGG	TTCGATTGAG	TTTGATGTGA	CACGCTTGAT	5100
GAT	'GAAAGCA	CAAATTCATG	AACAAGAAAG	ACCACAGGCA	GAACGTCATA	TCAGTACAAC	5160
AGC	GACTCGC	AATATCGCTG	CTCACCAAGC	AAGTATGCCA	GAAGATTTGG	ATTTGAGCCA	5220
GAT	TGGACGC	AATGAACTTT	GCCCATGTGG	TTCTGGTAAG	AAATTTAAAA	ACTGTCACGG	5280
ra?	<b>LAAGACA</b> Á	TAAAATGAGA	TAGTTTAGAG	GCGGATATCT	TGTGAAAAGT	AAATTTTTAC	5340
rgo	GTATCCG	TTTGCTTTAT	aaggagatga	GTTATGGTAT	TTACAGCAAA	AAGCTCTAAA	5400
AT.	<b>AATATA</b> G	AAGAAGTTCG	TGCCTTGTCA	AAATTAGAAG	GTCAGGCTTT	GGAGAGGAAA	5460
rc?	CAGCGAG	ATCAAGAGCT	AGAAGCCATT	ATACGTGGAG	AAGACCAGCG	AATTCTCTTG	5520
GT.	ATCGGGC	CATGCTCATC	TGACAACGAA	GAAGCTGTCC	TTGAATACGC	TAAGCGTTTG	5580
GC#	GTCCTAC	AAGAAGAAGT	GGCAGATCGT	ATCTTTATGG	TTATGCGTGT	TTATACTGCC	5640
\A.	CCCCGTA	CCAACGGAGA	TGGCTATAAG	GGCTTGATTC	ACCAGCCTAA	CGCGACAGAA	5700
GCC	CCTAGTC	TTATCAATGG	AATCAAAGCC	GTTCGCCATC	TTCACTATCG	TGTCATCACA	5760
GAZ	ACAGGGA	TGACAACTGC	TGATGAAATG	CTTTATCCTG	AAAACCTTCC	GCTTGTAGAT	5820
FAE	TTGATTT	CTTACATGGC	AGTTGGTGCC	CGTTCAGTTG	AAGACCAGCA	ACACCGCTTT	5880
STC	GCAAGTG	GGGCAGGATT	TTCTACTGGT	TTTAAAAATC	CAACCTCTGG	AAATCTCAAT	5940
GTC	ATGTTTA	ATGGGATTTA	TGCTGCTCAA	ААСАЛАСААА	GTTTCCTTTT	CTTAGGAAAA	6000
GAZ	GTAGAAA	CAACTGGGAA	CCCGCTTTCA	CACGCTATTC	TTCGTGGTGC	TCTTAATGAG	6060
rat	GGAAAAA	ATATTCCCAA	CTACTATTAT	GACAATTTAA	TTGATACCAT	TGCCCAGTAT	6120
SAC	AAAATGG	GCTTGGAAAA	TCCTTTTATC	ATCATTGATA	CCAATCATGA	CAATTCTGGT	6180
AAC	CAGTATA	TTGAACAGAT	CCGAATTGTC	CGCCAGACCT	TGATTAACCG	TGCTTGGAAT	6240

			960			
GAAAAAATTA	AGCAGTTCGT	TCGTGGTTTT	ATGATTGAGT	CTTATCTGGA	AGATGGTCGA	6300
CAAAATGAGC	CAGAAGTATT	TGGTAAGTCT	ATCACAGACC	CTTGCCTGGG	TTGGGATAAC	6360
ACAGAAGCTC	TTGTCAGAGA	AATTTACAAA	ACGTTAGGAG	AATAAGATGG	CATTTATTGA	6420
AAAAGGTCAA	GAAATCGATA	TGGAAGTCAT	CAAGGCTGAA	ACCCAATTGT	CTGCGGAAGC	6480
CTTGAGACTC	AAGGAAAGCC	GTGACAGGGA	ATTGGCAGAT	ATTATTTCAG	GGGAAGATGA	6540
CCGTATTCTC	TTGGTGATTG	GTCCTTGCTC	TTCTGATAAT	GAAGAGGCGG	TCTTGGAATA	6600
TGCTCGCCGT	TTATCTGCCT	TGCAAAAGAA	GGTAGCGGAT	AAGATTTTCA	TGGTCATGCG	6660
CGTGTATACT	GCTAAGCCTC	GTACCAATGG	AGACGGCTAT	AAAGGATTAG	TTCACCAGCC	6720
AGATACTTCT	AAGGCTCCAA	GCCTGATTAA	TGGCTTGCAG	GCTGTGCGCC	AGTTGCACTA	6780
CCGCGTGATT	ACAGAGACTG	GTTTGACAAC	GGCAGATGAG	ATGCTTTATC	CGTCAAATCT	6840
GATCTTGGTG	GATGACTTGG	TCAGCTACCA	TGCCGTTGGA	GCTCGTTCTG	TGGAAGACCA	6900
AGAGCACCGC	TTTGTGGCTT	CTGGGATTGA	TGCACCAGTA	GGGATGAAAA	ATCCAACCTC	6960
AGGAAATTTG	GGTGTTATGT	TTAACGCCAT	CTATGCTGCT	CAAAACAAGC	AAACCTTCCT	7020
TTATCATGGG	CAGGAAGTTG	AGACATCAGG	TAATCCTTTG	GCCCATGTTA	TCCTCCGTGG	7080
AGCAGTCAAC	GAGTATGGCA	ATTATATGCC	GAATTACTAC	TATGAAAATC	TACTCCAAGC	7140
CATTGAACGC	TATGAAACCA	TGGGACTTGA	AAATCCTTTT	ATCCTCATTG	ACACCAACCA	7200
TGATAACTCA	GGCAAGCAAT	ATATGGAGCA	GATTCGAATT	GTTCGCCAGA	CCTTGCAGAA	7260
TCGTGATTGG	AATGAGAAAA	TTAAAAAGAC	GGTTCGAGGA	TTTATGATTG	AATCTTACCT	7320
AGCAGATGGT	CGTCAAAACC	AACCAGAGAT	CTTTGGTTGC	TCTATTACTG	ACCCTTGCCT	7380
AGGTTGGGAA	AATACAGAGG	CCTTGGTAGA	AGAGATTTAT	GTTACCTTGA	CAAAATAAGT	7440
Gaaaaggatg	GAGTTGGGGA	ATCTCAACTC	CTTTTGATGA	GAATGATAGT	TGGACACGGA	7500
ATTGACATCG	AAGAATTGGC	TTCGATAGAA	AGCGCAGTTA	CACGACATGA	AGGATTTGCT	7560
AAGCGTGTAC	TGACCGCTCA	GGAAATGGAG	CGCTTCACCA	GTCTCAAAGG	ACGCAGGCAA	7620
ATAGAATATT	TAGCTGGTCG	CTGGTCGGCT	AAGGAGGCCT	TTTCCAAGGC	TATGGGAACG	7680
GGCATTAGCA	AGCTCGGTTT	TCAGGATTTG	GAAGTCTTGA	ACAATGAACG	TGGGGCGCCT	7740
TATTTTAGTC	AGGCACCATT	TTCAGGAAAG	ATTTGGCTGT	CTATCAGCCA	CACCGATCAG	7800
TTTGTGACAG	CCAGTGTCAT	TTTGGAGGAA	AATCATGAAA	GCTAGTCCAC	ATAGACCAAC	7860
CAAGGCTCTG	ATTCATCTGG	GAGCTATTCG	ACAAAATATT	CAGCAAATGG	GGGCTCATAT	7920
CCCTCAAGGA	ACGCTCAAGT	TGGCTGTGGT	TAAGGCCAAT	GCTTATGGTC	ATGGAGCTGT	7980
TGCCGTTGCC	AAGGCAATTC	AAGATGATGT	TGATGGCTTT	TGCGTTTCCA	ATATCGATGA	8040

AGCCATTGAA	CTCAGACAAG	CTGGACTCAG	CAAGCCAATC	CTCATTTTAG	GAGTTTCTGA	8100
AATCGAAGCT	GTTGCTCTAG	CTAAAGAATA	TGACTTCACC	TTGACAGTGG	CTGGACTGGA	8160
GTGGATTCAA	GCACTCTTAG	ATAAGGAAGT	GGACCTAACT	GGATTGACAG	TCCACCTCAA	8220
GATTGATTCA	GGGATGGGAC	GGATTGGTTT	TAGAGAGGCA	AGTGAGGTTG	AGCAGGCTCA	8280
AGATTTGCTC	CAACAACACG	GTGTTTGTGT	TGAAGGAATC	TTTACCCACT	TTGCTACTGC	8340
TGATGAGGAA	TCAGATGACT	ATTTTAATGC	CCAGTTAGAA	CGGTTTAAAA	CTATTTTAGC	8400
<b>FAGTATGAAG</b>	GAAGTTCCAG	AGCTGGTTCA	TGCTAGCAAT	TCTGCAACGA	CTCTTTGGCA	8460
igtagagact	ATTTTCAATG	CGGTTCGTAT	GGGAGATGCC	ATGTATGGCC	TCAATCCAAG	8520
PGGAGCGGTC	TTGGATTTGC	CTTATGATTT	GATACCGGCC	TTGACCTTGG	AGTCTGCTCT	8580
GGTTCATGTC	AAGACAGTTC	CAGCTGGAGC	TTGCATGGGC	TATGGAGCAA	CTTATCAAGC	8640
GGATAGCGAG	CAAGTCATCG	CGACCGTGCC	AATCGGGTAT	GCAGATGGAT	GGACAAGAGA	8700
CATGCAAAAT	TTCTCTGTCT	TGGTAGATGG	CCAAGCTTGC	CCAATTGTCG	GCAGGGTTTC	8760
GATGGACCAA	ATCACTATTC	GATTGCCTAA	GCTTTATCCG	CTAGGAACCA	AGGTAACCTT	8820
GATTGGCTCC	AATGGGGATA	AGGAAATCAC	TGCAACTCAG	GTAGCGACCT	ACCGCGTAAC	8880
САТТААСТАТ	GAGGTGGTTT	GCCTCCTCAG	CGACCGTATT	CCGAGAGAAT	ATTATTAGAA	8940
AAGAAAGGAG	TGGAGCATGA	ATCTACATCA	ACCCTTGCAT	GTCTTGCCTG	GTGTGGGACC	9000
AAAGTCAGCA	GAAAAATACG	CCAAACTAGG	AATTGAAAAC	TTGCAAGATC	TCTTGCTCTA	9060
CTTTCCTTTC	CGTTATGAAG	ACTTCAAAAC	CAAGCAGGTG	CTGGAGCTGG	AAGACGGTGA	9120
GAAGGCAGTT	CTTTCTGGTC	AGGTAGTGAC	TCCTGCTAGT	GTCCAGTATT	ATGGTTTCAA	9180
GCGCAATCGC	CTGCGTTTTA	GTCTCAAGCA	GGGAGAGGTC	GTTTTTGCGG	TGAATTTCTT	9240
TAACCAGCCC	TATCTGGCTG	ATAAAATAGA	GTTGGGAGCA	ACCCTTGCTG	TCTTTGGAAA	9300
ATGGGACCGC	GCTAAGGCTA	GTCTGACTGG	GATGAAGGTT	CTGGCTCAGG	TAGAAGATGA	9360
CCTCCAGCCT	GTCTATCGTC	TGGCTCAGGG	AATCAGTCAG	GCCAGTCTGG	TCAAGGTCAT	9420
CAAGACGGCT	TTTGATCAGG	GACTGGACCT	CTTGATAGAA	GAAAATCTGC	CCCAGTCTTT	9480
CTAGACAAA	TACAAACTCA	TGTCCCGTTG	TCAGGCAGTC	CGTGCTATGC	ATTTTCCAAA	9540
STATTTGGCA	GAATACAAGC	AGGCTCTTCG	CCGTATAAAG	TTTGAGGAAC	TCTTTTATTT	9600
CCAAATGCAG	CTGCAGATGC	TCAAGTCTGA	AAATAGAGTT	CAGGGAAGTG	GTCTGGTTCT	9660
SAATTGGTCT	CAGGAAAAAG	TGACAGCAGT	TAAAGTAAGT	CTTCCTTTTG	CCCTGACCCA	9720
AGCTCAGGAA	AAGAGTTTGC	AGGAAATTTT	AACTGATATG	AAGTCCGACC	ACCACATGAA	9780

TCGTCTCCTA	CAAGGGGATG	TGGGGAGTGG	962 AAAAACGGTA	GTCGCTGGCT	TGGCCATGTT	9840
TGCGGCAGTG	ACAGCAGGTT	ATCAGGCTGC	CCTAATGGTA	CCAACAGAAA	TCCTCGCAGA	9900
GCAACACTTT	GAGAGTTTAC	AGAACCTTTT	TCCCAATTTG	AAACTGGCTC	TCTTGACAGG	9960
TTCCTTGAAA	GCTGCAGAAA	AGAGAGAAGT	CTTGGAGACC	ATTGCCAAGG	GTGAGGCTGA	10020
TTTGATTATA	GGAACTCACG	CTCTGATACA	AGATGGGGTG	GAGTATGCTC	GTCTTGGTTT	10080
GATTATTATC	GATGAGCAGC	ACCGTTTTGG	TGTAGGGCAA	AGGCGTATTT	TACGGGAAAA	10140
AGGTGACAAT	CCAGATGTCC	TCATGATGAC	GGCGACTCCC	ATTCCACGGA	CGCTTGCCAT	10200
CACAGCCTTT	GGAGATATGG	ATGTTTCCAT	TATCGACCAG	ATGCCAGCAG	GTCGGAAGCC	10260
TATTGTGACG	CGCTGGATCA	AACATGAGCA	ACTACCTCAG	GTCTTGACTT	GGTTAGAGGG	10320
GGAAATTCAA	AAAGGTTCCC	AAGTCTATGT	CATCTCTCCT	TTGATTGAAG	AATCAGAAGC	10380
TCTAGATTTG	AAAAATGCCA	TTGCCTTATC	AGAGGAGTTG	ACGACTCATT	TTGCAGGCAA	10440
GGCAGAGGTG	GCTCTTCTAC	ATGGTAGGAT	GAAGAGTGAC	GAAAAAGACC	AGATCATGCA	10500
GGATTTCAAG	GAGAGAAAGA	CGGATATTCT	GGTTTCGACG	ACGGTTATTG	AGGTTGGGGT	10560
CAACGTTCCC	AATGCGACTG	TCATGATTAT	CATGGATGCC	GATCGCTTCG	GTCTCAGTCA	10620
ACTTCACCAG	CTTAGAGGTC	GTGTCGGTCG	GGGGGACAAG	CAGTCCTACG	CTGTTCTCGT	10680
TGCTAATCCC	AAGACGGATT	CTGGGAAAGA	CCGCATGCGT	ATCATGACAG	AAACGACCAA	10740
TGGATTTGTC	CTTGCGGAGG	AAGATTTGAA	AATGCGTGGT	TCTGGTGAGA	TTTTTGGAAC	10800
CAGACAGTCA	GGACTTCCAG	AGTTCCAAGT	GGCTGATATT	ATCGAAGATT	TTCCGATTTT	10860
AGAAGAAGCA	AGAAAGGTTG	CTAGCTACAT	TAGTTCTATA	GAAGCTTGGC	AAGAAGATCC	10920
AGAGTGGCGC	ATGATTGCCC	TTCATCTGGA	AAAGAAAGAA	CATCTGGATT	AAGCTTTCTC	10980
TAAGGAAAAC	TTATACTCAA	TGAAAATCAA	AGAGCAAACT	AGGAAGCTAA	CCGCAGGTTG	11040
CTCAAAACAC	TGTTTTGAGG	TTGTGGATGA	AACTGACGAA	GTCAGCTCAA	AACACCGTTT	11100
TGAGGTGGCA	GATAGAACTG	ACGAAGTCAG	TAACATATAT	ATACGGTAAG	GCGACGCTGA	11160
CGTGGTTTGA	AGAGATTTTC	GAAGAGTATT	AAGCTAGTTT	TTAGGTTTGG	CTCTTATACT	11220
AGAGTCATCA	AAAAGAAACG	AGGACTCTCA	TATGACAGTA	ACGATTAAAG	TAAATTACCA	11280
AACCACTTTC	CAAAAGAAGG	AAGCAAAAA	CTAGTATAAA	CAGAAGAGAG	AGCGAAATGC	11340
TCTTTTTTCG	TTTCTAAAAC	TACTTTCAGC	CCATCATCCT	AAAAGTAAAG	AATCTAAATT	11400
CACTTTCTAT	TTACCCTTCT	TTCTTGCATT	GATTACATAG	ATATGCTACA	GTTGTGGTAA	11460
CGATTACAAA	ATAAAAGGAG	CATGCTATGA	AAAATCCAGC	TTTGCTAGAA	Gaaattaaga	11520
CCTATAGAGG	AAGGGATGAG	GTTCCGGAAG	ACTTTGATGA	TTTCTGGGAT	GGGGAAGTGA	11580

	AAAATGTTTC	CACGCTTCCA	TCCTACCACT	TGGAGGAAAG	AGATTTCCAC	ATTCCTCAAG	11640
	TCAAGTGCTA	TGAGTTAACA	TTTGAAGGAA	GCAAGGAAGG	AAAGGTCTAT	GCACGCATTG	11700
	TTCTTCCAAA	GAGTGAGGAG	AAGGTCCCAT	TAATCTTCCA	TTTTCATGGT	TATATGGGAC	11760
	GTGGCTGGGA	CTGGGCCGAC	ATGCTGGGCT	TCACCGTAGC	TGGTTACGGT	GTTGTTTCCA	11820
	TGGATGTGCG	GGGCCAGTCA	GGTTACTCAC	AAGACGGCTT	GCGTTCTCCT	TTAGGAAATA	11880
	CCGTGAAGGG	GCATATTATC	CGTGGTGCTG	TGGAAGGTCG	GGACCACCTC	TTTTATAAGG	11940
	ATGTTTATCT	GGATATTTAC	CAGTTGGTCG	AAATTGTTGC	TAGTCTGTCT	CAGGTTGATG	12000
	AGAAGCGTCT	TTCTAGCTAT	GGTGCCTCAC	AAGGAGGGC	TCTAGCTCTA	GTTGCAGCAG	12060
	CGCTCAATCC	TCGAATTCAG	AAAACAGTTG	CCATTTATCC	CTTCTTGTCA	GACTTCAGAC	12120
	GGGTGATTGA	GATTGGTAAT	ACTAGCGAGG	CTTACGACGA	ACTTTTCCGT	TATTTCAAGT	12180
	TTCACGACCC	CTTCCATGAA	ACAGAGGAGG	AAATCATGGC	GACCCTTGCC	TATATCGATG	12240
	тсааааатст	TGCCCATCGT	ATCCAAGGTG	AGGTTAAGAT	GATTACGGGC	TTGGACGACG	12300
	ATGTTTGCTA	TCCCATTACC	CAGTTTGCGA	TTTATAATCG	TCTGACCTGC	GATAAAACCT	12360
	ATCGCATCAT	GCCTGAGTAT	GCTCACGAAG	CCATGAATGT	ATTTGTCAAT	GACCAAGTCT	12420
	ACAACTGGCT	CTGTGGAAGT	GAGATTCCTT	TTAAATATCT	AAAATAAGGA	GTCGACTCTA	12480
	AGCACAAAAT	CTTAAAAATT	ACAAACACGC	ATAGTATCAG	GGGATTAAGA	AAACTTTATA	12540
	CTATGCGTTT	TATCATGGAA	ATATAGTAAA	ATGAAATAAG	AACAGGACAA	ATCGATCAGG	12600
	ACAGTCAAAT	CGATTTCTAA	CAATGTTTTA	GAAACAAATG	TGTACTATTC	TAGTGTCAAT	12660
	СТАТТАТАТТ	TATAGAATTT	TTTGTTGCTA	GATTTGTCAA	ATTGCTTAAA	ATAATTTTTT	12720
	TCAGAAAGCA	AAAGCCGATA	CCTATCGAGT	AGGGTAGTTC	TTGCTATCGT	CAGGCTTGTC	12780
•	TGTAGGTGTT	AATACTTTTC	AAAAATCTCT	TCAAACCACG	TCAGCTTCGC	CTTGC	12835

## (2) INFORMATION FOR SEQ ID NO: 142:

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 5020 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double
   (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 142:

GGGGATATGA	AGAACAAAAG	AATATTTAAA	GACTTCCAAG	CTTCAAAAAT	GAGTTTAAAC	60
ATTTACACAA	GCCCCTTGTT	AGCCTTTGTT	TTTGTCTTCA	TAGGAGAGTT	TGTGGCTTTT	120

		·	964			
ACTTTGTATG	GTATTGGCTT	GTTAGCTCTC	ATCGGACTTG	CTAGAAATTT	TGGAGAGGCT	180
GGTCAAAATC	TTGCAAGCTA	CTTGCAGACC	TTGCATCAGA	GCTTGACGGA	TAAAACAAGT	240
GACTTTCGTT	TAATTTTAGG	ATTACTGGCC	TTTGGTTATT	CTTAACACTG	TGTTCAGATG	300
GACAAGAAAA	GTTGAGAAAA	GACCTATTCG	AACCTTGGGA	TTTTATAGAG	AGAATTTCCT	360
CAGCAATCTT	CTGAAAGGAT	TTAGTCTAGG	CCTGGCACTT	TTTCTTCTGA	CCTTGTTAGG	420
TTTAGTGGTC	TTAGGTCAAT	ATCGTTTGGA	ATCCATTCAC	TTGAATCCTT	ATTCTCTTGC	. 480
CTTTGTCGTC	TTTACTATCC	CATTTTGGAT	TTTACAGGGG	ACAGCAGAAG	AAGTGGTGGC	540
CCGTGCTTGG	CTACTTCCTC	AATTGGCCTC	AAGAACCAAT	CTAAAACTAG	CTATTCTTAT	600
ATCTAGCCTG	TTCTTTACCC	TGCTTCATAT	GGGCAATTCT	GGTCTCACCC	CTCTATCTCT	660
AGTAAATCTC	TTTTTATTCG	GAGTTGCCAT	GGCTCTTTAC	CTTCTCAAAA	CTGATACAGT	720
TTGGGGTGTT	GCAGGTATTC	ATGGTGCTTG	GAATTTTGCT	CAGGGTAATC	TCTTTGGGAT	780
TTTAGTTAGT	GGTCAACCGT	CAGAACGTCT	CTGATGACCT	TTTTACCACA	AGGCAATCAA	840
GATTGGCTAT	CAGGTGGTTC	TTTTGGCATA	GAAGGTTCCA	TTATGACAAG	TCTGGTATTA	900
CTACTGCTGA	TTGTCTATCT	TGCTAATAAA	TTAAAGAAAG	AAAATGAAAG	GATGTGACTT	960
CGGTCCGTCC	TTTTCTTCGT	GAAAATACTA	TAAGTATGCT	AAAATAGGAA	TAGCACATGG	1020
AGAGAGGATT	CTTATGATCA	ATCACATTAC	AGATAATCAA	TTTAAACTAG	ТАТСААААТА	1080
TCAACCATCA	GGAGATCAAC	CCCAAGCTAT	CGAGCAGTTG	GTGGATAACA	TTGAGGGGG	1140
AGAAAAAGCT	CAGATTCTGA	TGGGGGCGAC	TGGAACAGGG	AAGACCTATA	CTATGAGTCA	1200
GGTCATTTCT	AAAGTCAATA	AACCAACTCT	GGTTATTGCC	CACAATAAAA	CTCTGGCTGG	1260
TCAGCTCTAT	GGGGAGTTTA	AGGAATTTTT	CCCTGAAAAT	GCAGTTGAGT	ATTTCGTATC	1320
CTACTATGAT	TATTACCAGC	CAGAGGCCTA	TGTCCCTTCT	AGCGATACCT	ATATTGAGAA	1380
GGATAGTTCT	GTCAATGACG	AGATTGACAA	GCTTCGCCAC	TCAGCTACCT	CAGCCCTTTT	1440
GGAGCGTAAT	GATGTTATTG	TCGTGGCCTC	AGTCTCTTGT	ATCTATGGTT	TGGGTTCGCC	1500
CAAGGAATAC	GCTGATAGTG	TCGTTAGTCT	CCGTCCTGGT	CTAGAGATTT	CTCGTGATAA	1560
ACTCTTGAAT	GACTTGGTCG	ATATTCAGTT	TGAACGTAAT	GATATTGATT	TCCAACGCGG	1620
AAGATTTCGC	GTTCGTGGGG	ATGTGGTAGA	GATTTTCCCA	GCTTCCCGAG	ATGAACATGC	1680
CTTTCGAGTA	GAATTTTTTG	GAGACGAAAT	TGACCGTATT	CGTGAAGTTG	AGGCTCTGAC	1740
AGGTCAGGTG	TTGGGAGAAG	TGGATCATTT	AGCGATTTTC	CCAGCGACAC	ACTTTGTGAC	1800
CAATGACGAC	CACATGGAAG	TTGCCATTGC	AAAGATTCAG	GCCGAGTTGG	AAGAACAATT	1860
AGCTGTCTTT	GAAAAGGAAG	GTAAACTGCT	TGAAGCCCAG	CGTTTGAAAC	AGCGGACAGA	1920

TATGATATC	GAAATGTTGC	GTGAGATGGG	CTATACCAAT	GGGGTTGAAA	ATTATTCTCG	1980
CACATGGAT	GGACGGAGCG	AAGGAGAGCC	TCCTTATACG	CTTCTCGACT	TCTTCCCAGA	2040
GATTTCTTG	ATTATGATTG	ACGAGAGTCA	TATGACCATA	GGGCAAATCA	AGGGCATGTA	2100
CAATGGAGAC	CGTTCGCGTA	AAGAAATGCT	GGTTAATTAT	GGTTTCCGTT	TGCCGTCTGC	2160
TTGGACAAT	CGTCCTCTCC	GTCGGGAGGA	GTTTGAGAGT	CACGTTCATC	AGATTGTTTA	2220
CGTTTCAGCG	ACACCTGGTG	ACTATGAAAA	TGAACAGACC	GAGACAGTGA	TTGAGCAAAT	2280
CATTCGTCCA	ACGGGACTCT	TGGATCCAGA	GGTGGAAGTC	CGTCCGACTA	TGGGACAGAT	2340
PGATGACCTC	TTGGGTGAAA	TCAATGCCCG	CGTTGAAAAA	AATGAGCGTA	CCTTTATCAC	2400
ACTTTGACC	AAGAAAATGG	CAGAGGATTT	GACCGACTAC	TTCAAGGAAA	TGGGTATCAA	2460
GTCAAGTAC	ATGCACTCGG	ATATCAAGAC	CTTGGAACGG	ACGGAGATTA	TCCGTGACCT	2520
CCCTTCCCT	GTCTTTGATG	TCTTGGTCGG	AATTAACCTG	CTCCGTGAAG	GAATTGACGT	2580
CCTGAAGTG	AGCCTCGTAG	CTATTCTCGA	TGCTGACAAG	GAAGGTTTCC	TTCGCAACGA	2640
ACGTGGACTC	ATCCAGACCA	TTGGACGTGC	TGCACGTAAT	AGCGAAGGTC	ATGTTATCAT	2700
TATGCGGAC	ACGGTTACCC	AGTCTATGCA	ACGTGCTATC	GATGAAACTG	CCCGCCGTCG	2760
CAAAATCCAG	ATGGCCTATA	ATGAAGAACA	TGGTATCGTT	CCACAAACCA	TCAAGAAAGA	2820
ATCCGTGAC	TTGATTGCTG	TGACCAAGGC	AGTTGCTAAG	GAAGAAGACA	AGGAAGTCGA	2880
TATCAATAGC	CTCAACAAAC	AAGAGCGCAA	AGAACTAGTC	AAAAAGCTTG	AGAAACAAAT	2940
CAAGAAGCA	GTTGAAGTGC	TTGACTTTGA	ACTAGCAGCT	CAGATTCGTG	ATATGATGCT	3000
GAAGTCAAG	GCCTTGGATT	AGGGGAATAG	TATGATTTAT	TTAAGAAAGT	TAAAGAAAGA	3060
GATTTGATG	TCTTTATGGG	AAATGGCTTA	TTCACAGCTT	AATCCAGTTT	GGAAACAGTA	3120
GATGCTCCC	TATTATGATG	ATTATCAGTA	TTTTTCAAAT	TTTAAAGAAT	TCGAACTACA	3180
AAATCAGAA	TCCATTTTAA	GCAACTCAAA	TCGCCTTGGT	ATTTTTGTTG	ATGATAAACT	3240
GTTGGGACT	GTTTCGCGTT	ATTGGGTATG	TAAAGAAACA	AGATGGATGG	AATTGGGAAT	3300
GGTATTTAT	GATAAAAAAT	TCTGGAACAC	TGGTATTGGG	AAAGTTGCTA	TGTTGCAGTG	3360
GATAGATAGG	ACGTTTCAGG	ATTACTTGGA	GTTGGAGCAT	CTGGGTTTGA	CAACTTGGTC	3420
GGAAATATT	GGTATGATGA	AACTTGCTGA	AAAATTAAGA	ATGAAAAAAG	AAGCTCATAT	3480
CCAAAAGTT	CGTTATTATC	AAGGTAAATA	TTTTGACAGT	ATTAAATATG	GTATTTTGAG	3540
GAAGACTGG	GAGAAAATAA	ATGACGGTTA	TTATCAAATC	AATGGAAACT	CCTGAAGAGA	3600
א משכינים מכומי	Ameemmeemm	CACTCCCAAA	CONCOLOROR	CCCBBARCE	CACCODOMOCC	3660

			966			
CTGCGGAATT	TCAGGAGACA	ATGACATTAG	AAAGATGTCG	ACTCTTTAGT	CAAAAGTATC	3720
CAGAAAATAC	ATTGATTGCG	ATGGATGGTG	TGAAGATAGT	TGGTTTTATA	AGTTATGGCA	3780
ACTGTCGTGA	TGAGACTATT	CAAGCTGGTG	AAATTATTGC	TTTATATGTT	TTAAAAGACT	3840
attatggaaa	AGGAATCGCA	CAAAAGTTAG	TGAAAGCAGC	TTTGACTGAT	СТТААТСАТТ	3900
TTTCTGAAAT	TTTCTTATGG	GTATTGAAAG	ATAACAAGCG	CGCCATTGCT	TTCTATCAAA	3960
AAATGGGTTT	TACTTTTGAT	GGACAAGAAA	AAATACTTGA	ACTTGGAAAG	CCTATAAAGG	4020
AAAAACGGAT	GGTATTCTAT	тсталатаат	TCTCAAAAGT	AAAAGCTAAT	ATGGTACCAA	4080
GTCTGAAAAT	TTAATAATT	AGAAAGCGAG	TAAATTTATG	TCCCGTTCCC	AATTAACAAT	4140
ГТТААСАААТ	ATCTGTCTGA	TTGAAGACCT	CGAAACTCAG	CGCGTGGTGA	TGCAGTATCG	4200
CGCCCCTGAA	AACAATCGCT	GGTCTGGTTA	TGCCTTTCCT	GGAGGTCATG	TAGAAAATGA	4260
<b>PGAGGCTTTT</b>	GCGGAGTCTG	TCATTCGTGA	AATCTACGAA	GAAACAGGGT	TGACTATCCA	4320
AAATCCTCAA	CTTGTCGGCA	TTAAAAATTG	GCCACTAGAT	ACAGGTGGGC	GCTATATTGT	4380
CATTTGTTAT	AAGGCGACTG	AGTTCTCTGG	TACCCTTCAA	TCTTCAGAAG	AGGGAGAAGT	4440
PTCTTGGGTG	CAAAAAGACC	AGATTCCAAA	CTTAAATCTG	GCCTATGATA	TGCTACCATT	4500
GATGGAAATG	ATGGAAGCTC	CCGACAAGTC	AGAGTTTTTC	TACCCTCGCC	GTACAGAAGA	4560
CGATTGGGAA	AAGAAAATCT	TCTAGTCTTT	ТАСТАААТАА	CCTAGCTGAT	CCAAGGCCTC	4620
CTCGATATAG	TGGAGGTCTT	GTTGTGTCTC	GGCTTCAACT	AGGTGATAAT	GAATACCATC	4680
rgttaactca	GAAATTGGCT	TAAAGTCAGA	ACGTTCAACT	TGTTCTAGAA	AATGTTGCAC	4740
STCGCGGCGA	CAGGTCAGTT	TTAGTAAGGT	ттсаатстст	CCATAAACAG	GATGATCAAT	4800
CAAGATATTT	TGAACGCGAC	CACCATTATC	TACGATAGCA	AGTAATTCTC	GTCCAATTTC	4860
ГТСААСТТСА	TGCTTGACCT	TAAATAATTT	GTGATGATAA	GTATTTGCAT	TAGCATCTTT	4920
<b>ЧТАБАТАТАА</b>	CCACGATTGG	TAGATAGAAT	TGGAGATCCA	TCAGCTCTTA	AAATTGCAAT	4980
TCTTGAACA	ATAACTTGTC	GAGTGACATG	AAAGTGCTCA			5020

## (2) INFORMATION FOR SEQ ID NO: 143:

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 4965 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double
   (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 143:

AAAAAGTGGC AATCCATTGA TTGGCCACTT CATTTAGAGA ATTATCGTCT CGCCCTTGAA

120	TGAACTGCTG	AACTACTACT	CTATCGCTAG	TGAGTTACTG	GTGTAGTACT	GAAGAAGGTC
180	ATAATCCGCA	AAGCATTCTG	ATACTAGACC	ACTCCCCACA	GAGTTGGTAG	GAGCTGGATG
240	ATTAGCCCAA	CTCCTGACTT	GTCGCTGGCG	GCGATAACTT	CAATAGCAAA	PCACTTCCGC
300	AACCTTCTCT	CTTCAACAGA	ACTTCTTTTC	TGTGACCTCT	CAGTCGAACC	PAGCTGGTAA
360	TAAAGCAAAG	CACTAGGATC	GATTTCACTA	CAAGACTTCC	CTGTTGATTT	GGTTTTTGAC
420	ATGAGCCATG	CATTTACCAG	TGCTGAATCG	TGGGGAAGCT	CCCAAATGCT	CGCTCGTTCC
480	ATCATGCCCA	AATGATTATC	CGTGACAATG	ACCTGCTCTA	TATTAGAATA	<b>FAATTAGAGT</b>
540	TTCGTCTTGG	GCCACATATT	GAAAGCATGA	TCTAGGTGTC	CTAGGGTTAA	ATCCAGCCAC
600	TAAAGAAGTC	GAGTAGGATT	GCATTAGCCA	AATCCAATCT	CAGTCTTCCC	rtggttgtac
660	CAATCCCTGC	CTTCTCGTAG	GAGGATAGAA	TGTCACACGA	TGAAGGTTGT	AGGTTAGACT
720	CTCATACACC	TATCCTGATA	TGAACCGGTT	TGAATAGACT	CAGTAGCTTT	ATAATCGTCG
780	AACTCCATTA	TCTGATGATA	ATCACATGCT	AATCTTTGAA	CTGCTGCTTC	ACTCTACCAT
840	ACCACCACCC	TGACTTCAAT	TGGGCAACTG	ATTGGTATGC	TCTGATAGCC	PTAGCTAAGG
900	CATATAACCC	CCATCTTTTC	ATCTCGTAAC	GTACTCAGGA	TCTCAATACC	ATTGGCAAGC
960	GATATTCCAT	AGTAAGCAGG	CGATAGGTCC	ACGGAGCATA	CACCCTTTTC	PTGACATCAA
1020	AGCATACATA	CCTTGCTATT	ATTCCTGTTC	CAAGGTCATC	GAGCTTCTCC	GAATAGTTCA
1080	ACTTCCCATC	GAATCGTTTC	TAGTTAGATA	GTTTGTTGGA	CATTAGCAAA	ATCGGATTGC
1140	AGCTGGCGAA	TGGTAGTAGA	AGCAAGGGCT	ACCGTAGGCC	CAATAGCAAT	AGCCCTGGT
1200	ACCTACAAAG	AATTACGACC	TTTTCTTGAT	ATTATTTTGA	CAAAGGCATG	CGTTTGGTAT
1260	ACGACCTGTT	CTACTTCTAC	AAGACATTCC	GTTATCCATC	CACCTGTTTG	CTAGAATAG
1320	ATGAATTTTC	GCATGGCAGA	ACCGCACTTT	ATAATCAGCA	AAAGATAGCC	CATCGTCTA
1380	TGCCAAATCT	TTTCCTTGGC	CCATTTTCAA	CTTATAACCA	TAGTAGTAAT	GATCTATGG
1440	GTCTCTCTGA	CGGAGACATT	AACTCCTTAG	CTCATTTTTC	TCTGAGTTGC	GATAAAACT
1500	TAAATAGTCT	TTGTAAAGTA	TCTGCCAAAG	TTCTTGAGCT	CATACATACG	CTAGATAGT
1560	ATAATCCTTG	GTTTAAGGTC	AAAAAGTCCT	GCCCGATGGT	CTGTAACCGT	GTGAAATTC
1620	AAGAACTGCC	ACATACTGTA	CCTGTACGAT	GCTTAATGCA	ACTCGTCTTT	ACTGAGAAT
1680	AGTATTTTCA	TCAACTCCCC	TCATCACTCT	TTCTAGGTCT	TTAAGCCAAT	TAGCCCGTC
1740	TTGAGGAACA	AAAATGCTGC	AGTCCTGCTA	ACTCTGTGGA	AAGTAATGGG	AAGGAGAGT
1800	CCCTGCAATA	CTTGCCGAGC	CCCTCAGCTG	ACCGAAAATT	TGGCATCTAC	STCAACTGAC

TTCTGTCCCT	TATTATTTCG	GCCAAAGGGA	GCCACATTGA	GATAGGTCGT	TAAAATCTCA	1860
TCTTTATTCA	TGGCGCGTTC	ÇAAGGCAAGA	GCATCCACAA	TCTCTGCCGC	CTTACGAGCC	1920
AAGGTCGGCG	CATCCCCAAC	CACCTGCTGT	TTAATTAGTT	GCTGGGTCAA	GGTTGAACCC	1980
CCACTAGAGG	AACCCAAACC	TACAAATTTC	CCCAAGGTCG	CACGAATCAC	CGCCTTGGGT	2040
ACTACACCCT	TATGTTCTTT	AAAGTGTTCA	TCTTCTGTCG	CAATGATAGC	CTTCTTCAGA	2100
TTTTCCGAAA	TTTGCTCAGA	TGAGATAGAA	GTGCGCAACA	AATCACTCTC	TATGGAAGCA	2160
ATCACCGTCC	CGTCCGAATA	GGTAATCTCT	GAAATAGAAG	AGATGTCCTT	GACCTGATTC	2220
ACCAATTCTT	CTGTCTGAGG	CACCCGAACC	TTGTCAAATA	AGGCCACTCC	GTATCCCAAA	2280
GCAATCCCAG	CTCCCAACAT	TCCTCCTAGA	AAACCGAGTA	CAAAGAGTAA	GTTAAATAAG	2340
GCTTTTATAC	TCAGTAAAAT	AGCTGGGAAA	ATGACTGACT	TATCTAAGGT	TTTAGATTTT	2400
TTGGTACTTG	AACCTTTCTT	GCCAGGTCTA	GCTGATTTTT	TATTTTTTG	TTTTTGCTGG	2460
AAAAATTCCA	GCATTTTTCG	TTTTAATTCA	TTTAATTGAT	TTTGCATGGA	TTTCCTCACT	2520
ттатстатта	TACCACAAAA	GGGAAATTTT	СААТААААТА	GCCACTTTCT	TCCCTATTCT	2580
GCTAGGCTAT	TGCCCAAGTT	TGTGATACAA	TAGGTAGAAA	CAATAATTTT	AAAAAGGAGA	2640
АААААСАСАТ	GCACATTTTT	GATGAGCTAA	AAGAGCGTGG	TTTGATATTT	CAAACGACTG	2700
ATGAAGAAGC	TTTGCGTAAA	GCCCTAGAAG	AAGGTCAAGT	TTCTTATTAT	ACTGGCTACG	2760
ATCCAACTGC	TGACAGCCTT	CACCTAGGCC	ACCTTGTCGC	AATCTTGACA	AGTCGTCGCT	2820
TGCAACTAGC	AGGTCACAAA	CCTTATGCGC	TCGTTGGCGG	TGCTACAGGT	CTCATCGGAG	2880
ATCCGTCCTT	CAAAGATGCT	GAACGTAGTC	TCCAAACAAA	AGACACAGTA	GATGGCTGGG	2940
TCAAGTCTAT	CCAAGGACAA	CTTTCTCGTT	TTCTTGACTT	TGAAAATGGC	GAAAACAAGG	3000
CTGTCATGGT	CAACAACTAC	GACTGGTTTG	GCAGCATCAG	CTTCATTGAC	TTCCTCCGTG	3060
ATATTGGAAA	ATACTTCACG	GTCAACTACA	TGATGAGTAA	GGAATCTGTT	AAAAAACGGA	3120
TCGAAACAGG	AATTTCTTAC	ACTGAGTTCG	CTTACCAAAT	CATGCAAGGG	TATGACTTCT	3180
TCGTCCTTAA	CCAAGACCAT	AATGTCACTC	TTCAAATCGG	TGGTTCTGAC	CAGTGGGGAA	3240
ATATGACAGC	TGGTACCGAA	TTGCTTCGTC	GTAAGGCGGA	CAAGACTGGT	CACGTTATCA	3300
CTGTTCCACT	AATCACAGAT	GCAACTGGTA	AGAAATTTGG	TAAATCAGAA	GGAAATGCCG	3360
TCTGGCTCAA	TCCCGAAAAG	ACTTCTCCAT	ACGAAATGTA	CCAATTCTGG	ATGAACGTGA	3420
TGGACGCTGA	CGCTGTTCGC	TTCTTGAAAA	TCTTTACTTT	CTTGTCACTT	GATGAGATTG	3480
AAGATATTCG	TAAACAATTT	GAAGCAGCGC	CACACGAACG	CTTGGCTCAA	AAAGTCTTGG	3540
CTCGTGAAGT	TGTTACACTT	GTTCACGGAG	AAGAAGCCTA	CAAAGAAGCA	CTTAACATCA	3600

CTGAGCAACT	CTTTGCAGGA	AACATCAAAA	ACCTTTCTGT	CAAAGAGCTC	AAACAAGGAC	3660
TTCGTGGTGT	GCCCAACTAC	CAAGTACAGG	CAGACGAAAA	CAACAATATC	GTGGAACTGC	3720
TCGTCTCATC	TGGTATAGTT	AACTCAAAAC	GCCAAGCCCG	TGAAGACGTC	CAAAACGGAG	3780
CCATCTACGT	AAACGGCGAC	CGCATCCAAG	AGCTTGACTA	TGTCTTGAGT	GACGCTGATA	3840
agttagagaa	TGAACTGACT	GTTATCCGTC	GTGGGAAGAA	AAAATACTTT	GTATTGACTT	3900
АСТАААСТАТ	TCAACATTTA	TCTATAAACA	AAGGAGTTAA	CCTCGAGAAA	GGTAACTCCT	3960
TTTTGCTGTT	AATAACTCTC	ATCTATCTAT	TTTTAATAGA	CAGGCTACGC	AGGACAATGC	4020
GCAAGGTTGT	TAGATTATGT	AAGATAGAGA	GATTTGAAGG	ACTGAACCAA	TTAAATAAGC	4080
CAAAGCCAAT	CAAACTACTA	TTTACGACAA	CGGTATCCTG	AATATTTTC	TTGATGAGTG	4140
TTTGCAAAGA	TGATGATAAC	GAATCCAACT	CTTGGAAGAA	ATCCAAACGA	ТТАТСТААСА	4200
ATAAGATATC	ACTCATCTGC	TTAGAAATAT	CTGCACTCTC	ATTCATCACC	ACACCGATAT	4260
CTGATAGAGT	TAAAGCCGCT	GAGTCATTCA	ATCCATCTCC	AACCATCAAA	ATAGTGTGAC	4320
CTGCTTTCTG	CAGTTTCTCT	ACTAACTCAA	ATTTCCCATC	AGGTTTCAAG	TCTGTATAGA	4380
CCTGATCAAA	GGGCAAATCT	TTGACTAATT	CCTCTGTCCT	AATCAAGGTG	TCTCCTGTTG	4440
CCAGAATCAA	TTTTTTCCCC	TGTGCCTTAA	GTTTATCCAA	GGCTGTTTTT	GCTTCTTTTC	4500
TCAAAGGAGT	ATGAATGCAG	AACATTCCAA	TCAATTCATT	TTGATAAGCC	AAGAATAAGA	4560
GATTGTAGTG	ACTCTTGTAC	TCTTCAATTA	AAGCATTTTG	TTCTGAACTG	ATATGAATCT	4620
GCTCATCCTG	CATCAAGACA	TAATTCCCAA	TAAGAACTGG	TTGGCCATCT	ATATGAGATT	4680
TGATCCCCTT	GCTTGCGATA	TATTGGAGTT	TCCCATGCAT	TTCCTCATGT	TCAATTCCCT	4740
CTATCTCAGC	TTGCTTGACG	ATGGCATTAG	CAATAGGATG	ATAAATGTGT	TCCTCAAGAC	4800
AGGCACTGAT	TCTGAGAATA	TCTTCCTCAC	TATAGTCTCC	AAAAGGTAAC	ACCTTTTCAA	4860
CTATAGGATA	ACTAGTTGTG	ATTGTTCCTG	TCTTATCAAA	CAAGAAAGTA	TCAACTTCCA	4920
GATATTTCTC	CCTGTTGTGG	CCTCTGGCTG	TCATCTCTGT	GCTGG		4965

## (2) INFORMATION FOR SEQ ID NO: 144:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 3232 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 144:

			970			
CAGGGGCGTA	TTACGTGACA	ATTCAATGTA	GGCTGTCGCT	ACTTGCGCCA	AAACAAGGAT	60
TCGATAATGT	CGGATGATAC	TAACGATTAA	ACCGAGCAGA	AAGGATCCCA	AAATTCCCCA	120
AACTGCAATA	TGCAAGGTCA	GAAAGAATGC	CTTTTGATAT	AGTGGTAGAT	ATTGTTCAAC	180
AATGGATCAA	TCCAAAAATA	GAACCTCCCA	TCTAGAAATA	ATACAGTTAT	TGTAGCACTT	240
AAAATCTTCT	TTGGATAATA	TCTATTTTT	ATTGCCGTTA	TAAGGATTTT	TATCATAGAC	300
АТ <b>АААА</b> ТТТС	TGAAATTTCC	АААСААААТА	TTTTAAAAGT	TTTGAAAAAG	AGTTAAGATA	360
TTTTTGTAAT	ACACAAAGTA	AACGCTTACT	TATTAAGGAG	GACATTTTAT	GTCATACAAA	420
ACAAGCAATG	CAGAAGGTCA	TGTAGATTTC	ATCAATACCT	ATGATTTGGA	GCCAATGGCG	480
CAACAAGTTA	TTCCTAAAGC	AGCATTTGGC	TATATCGCTA	GTGGGGCGGG	AGATACTTTC	540
ACTTCTTTCC	AGTGATTTTA	GCGTCAGGTT	CTTTTTAGTT	TTTAAAGATT	ATCCGTGAAT	600
TTCTTGCTTA	TTTATGATAA	AATGGGAGTG	TCGCAAAAAA	TGACTCATCG	TATTCAATTT	660
TGAGTAAAAC	TAGGAGGATC	CCATGTCTAC	AGAACATATG	GAAGAACTAA	ATGACCAGCA	720
GATCGTTCGC	CGTGAAAAAA	TGGCTGCGCT	CCGCGAACAA	GGAATCGATC	CTTTCGGAAA	780
ACGTTTTGAA	CGTACTGCAA	ATTCACAAGA	ATTAAAAGAT	AAATATGCCA	ACCTCGATAA	840
AGAACAATTA	CACGATAAAA	ACGAAACAGC	TACTATCGCA	GGACGCTTGA	TAACCAAACG	900
TGGTAAAGGA	AAAGTTGGTT	TTGCCCACCT	TCAAGACCGC	GAAGGCCAGA	TTCAGATCTA	960
CGTTCGTAAG	GATGCTGTCG	GTGAAGAAAA	CTACGAAATC	TTCAAAAAAG	CAGACCTTGG	1020
FGACTTCCTT	GGTGTCGAAG	GTGAAGTGAT	GCGTACGGAT	ATGGGAGAAC	TCTCTATCAA	1080
GGCAACCCAC	ATCACACACT	TGTCTAAGGC	TCTTCGTCCT	CTTCCTGAGA	AATTCCATGG	1140
ITTGACAGAC	GTTGAAACAA	TTTACCGTAA	ACGTTACCTT	GACTTGATTT	CTAATCGTGA	1200
AAGCTTTGAA	CGCTTTGTCA	CTCGTTCAAA	AATCATCTCT	GAAATCCGTC	GTTACCTTGA	1260
CCAAAAAGGA	TTCCTTGAAG	TGGAAACACC	TGTTCTTCAT	AATGAAGCCG	GTGGTGCTGC	1320
rgcccgtcca	TTTATCACCC	ACCACAATGC	CCAAAACATT	GACATGGTGC	TTCGTATCGC	1380
GACTGAGCTT	CACTTAAAAC	GCCTTATCGT	GGGTGGTATG	GAACGTGTCT	ATGAAATTGG	1440
CCGTATCTTC	CGTAACGAAG	GAATGGACGC	TACTCATAAC	CCTGAGTTCA	CTTCTATCGA	. 1500
AGTTTACCAA	GCTTATGCAG	ACTTCCAAGA	CATCATGGAC	TTGACTGAAG	GCATTATCCA	1560
ACACGCTGCT	AAATCAGTCA	AAGGTGATGG	CCCAGTCAAC	TACCAAGGTA	CTGAAATCAA	1620
GATTAACGAA	CCATTTAAGC	GTGTTCATAT	GGTGGATGCT	ATCAGAGAAA	TTACTGGTGT	1680
CGATTTCTGG	CAAGACATGA	CTTTGGAAGA	AGCTAAAGCT	ATCGCTGCTG	AGAAGAAAGT	1740
rccagttgag	AAACACTACA	CTGAGGTTGG	TCACATCATC	AATGCCTTCT	TTGAAGAGTT	1800

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TGTTGAAGAA	ACTTTAATCC	AACCAACCTT	TGTCTATGGA	CATCCAGTAG	CTGTATCTCC	1860
ACTCGCTAAG	AAAAATCCTG	AAGACCAACG	CTTTACTGAC	CGTTTCGAGC	TCTTTATCAT	1920
GACTAAGGAG	TACGGTAATG	CCTTTACTGA	GTTGAACGAC	CCAATCGACC	AACTTAGCCG	1980
TTTTGAAGCC	CAAGCTAAAG	CCAAAGAACT	TGGTGATGAT	GAAGCGACAG	GAATCGACTA	2040
TGACTACATT	GAAGCTCTTG	AATACGGTAT	GCCACCAACA	GGTGGTTTGG	GAATCGGTAT	2100
CGACCGTCTC	TGCATGCTCC	TCACTGATAC	AACAACTATC	CGTGATGTAT	TGCTCTTCCC	2160
AACAATGAAA	TAAATTCTTA	TCCTCTGGGT	CTTATCAGAG	GATTTTTTGA	TTCAAAAAGA	2220
GACTGAATTT	AAGGAGAAAA	TGAAGTGTAG	ТАТАТТСААА	TTGAAATAGT	ACACTTTGAT .	2280
TTCTAAGACA	TTGTTAGAAA	TTGGTTTAAA	TTCCCTAAGC	AATTTGTGCA	TGTTTTATTT	2340
CATTTTACGA	TAGTACGCTG	AAACTTTTCA	AAAAGTACTA	GAAATTGACT	TGGATTCCCC	2400
AATTGATTTG	TTCAGATTCA	СТАТАААТАА	AAAATTAATA	AGTGGGATAG	GAAGTTAGCG	2460
TCAACTAGGA	TAGTATCTTG	CTTAAACAGT	ATATATGGGA	TTGATATAAG	TCCATAGGTC	2520
CTATTAGAGG	ATGTTCTGGT	GTCTTATTCA	CTTGTTTTTT	ATAGTATTAG	TAGATAGAAT	2580
CAGCAAATAA	AAACCCAAAT	CATTCATACC	TCTCTCAACT	AGATGTAACT	TACAAAACCC	2640
CTGACCTCAT	GAGCCACTTT	CTTCCTCCTC	ATGAGGTCAG	TTTTACTTTC	TGCTGTTCCA	2700
GTATCGTTTT	TCCTCGCTAG	ATTTCCTCAA	AAGGGCAGAC	TCCTCCCTTG	GTGCGTCACA	2760
CGATTTTTTC	ATCTCGACTG	TTCTTTAATG	CATCATTAAC	GACGCTTTTC	TTCTAGGTGG	2820
TTCATAAGGA	ACAGGAAGAT	TCAGGTTGAC	TTTTCTAATC	CTAGAATAAA	GTGCTGAAAA	2880
CAATTCGGAA	TAGGCATAGA	GACTAGACAA	TTTGAGGAGC	TGCTTGCGTC	CTGTTCGAAC	2940
ACATTTTCCC	ACCACGTGAA	GAAAAAGATG	GCGGAAGCGT	TTGATTGTTA	AAGTTTGGAA	3000
GTCACCTCCA	GCTAGATGTT	TGAGAAAAAG	ATAGAGATTG	TAGGCGATAC	AGCTCATCAT	3060
CATACGAACT	TCGTTTTTGA	TTAAGGTTGA	ACTATCCGTT	TTATCGCCAA	AAAATCCCTC	3120
CTTCATCTCC	TTGATGAAAT	TCTCGGCTTG	ACCACGTCCA	CGATAAAGCT	GAAACTGGTC	3180
TTGGCTTGTT	CCACTCGTCA	TATTTGTAAC	GAGAGAAATA	ACATCGTAGA	AC	3232

# (2) INFORMATION FOR SEQ ID NO: 145:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 10711 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

972 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 145:

60	ATTATTGGCG	CGGGCGTGAC	TTTGCCCTTG	ттсааааста	TGATGAAAAG	CCGGAGAAAA
120	GAAGACATTC	CTAAAGGTGA	GGTTCAAGCA	CTCTGGATCA	TAGCTGCATG	GCGACTACTT
180	TAAGGCTGCG	TGACAACTGC	CTCAACTATT	CCCTGATAAC	ATGAGACAGA	TCATACATTT
240	TACGGGAACT	AAATGATCGC	GTTTGCTAGA	GTGGTTGATG	TACCAGTAAC	ACACAAATAT
300	TACACTTATA	TGGATTGACT	TATCCAAGGA	GATTGGTCTG	TATGGCTGAG	TTGTGCCGTC
360	GCAGTCAAAG	AGAATACGCG	CTGAAGGTGA	TGGTATACTT	GGATGCAAAA	CTATCCGTAA
420	GCTCTTTACC	AAAATCAGAT	CTGCTGATAA	TTAAAATATG	TGTAACAGGA	CTCAAGACTT
480	AAAGATTTCT	AGGGGAAATC	CCTATGTAAA	GGGTTGGATG	ATCAATCAAA	TTGTTCAAGA
540	AACAAACCAG	GTACACTTTG	AGACAGTTCA	CTGGATGAAC	AATTAAGGCT	CACAAGTAGG
600	GAAGAGTTTT	GCCAGTTAAT	GTGTGCTTGC	ACAACCATGG	GAATTCTAAG	AAAGCTTCTG
660	TTGTATAACG	AAGTAGTCTC	CTACGGATCC	TTTGCCAAAG	AGGAGATGAT	TGAATTCAAA
720	AAAAATCCGA	TGAATTTGCG	AATCCTCTGT	ATTGTGACCA	GTTGAAATCC	GTCCTTATTT
780	TGGGATGGŤC	ATTGTCATTC	ACAAAGTTAA	GTGCATGTTG	TAAGGACAAT	ACTACTGGGA
840	GCTCGTCTCT	CCTTACAGCA	AAGATGGTAG	GAAAACTTTA	CAAACCTGCA	AAGATACCAG
900	ATTGTCTATA	GAAGGACAAT	AGAAGAGTAT	GCAGAACTTG	TGCAAGTTTC	ATCCAACAAG
960	TCCTATAAAT	TGACCGTCAG	GTACAAATAT	TATCTAGTTG	CTCTATTACG	CTCAACAAGA
1020	TTAAACAAGG	AAAGGCTCTC	CATCGACTAA	GAACAAAAGG	GACCAGCGAC	ACACATCTAA
1080	CAGTTGAATG	CTATGCCTCT	ACCGTACAGC	TTTGGATTTG	GGCTATTGCC	ATTTCCGTCA
1140	TTTGTTCAAG	GCCACCAACA	ATCTCTTTGT	ATCTTGCGTA	AGCAAGTAAA	GACAAACTGG
1200	GGGGATGAAT	GGTCACTTAT	AAGAGAAATT	GATATGGTCA	AAACTTTGGC	CAGATGGTAA
1260	AAAGCCAAGG	CAATCCAGAA	ATGGTCTTTA	GATTCTCAGG	TAATCTTGCA	GGAAGGATGT
1320	CCAATTCATT	AGTCCAATTC	AAGCAGAAGG	TCAGCCTTAC	TAAAGCTAAA	CTGAATTTGC
1380	TCTATGAAAC	GCGCGTCCAA	CAAAAGTTCA	ACAGCAACTA	AGTTGACCAA	TGGATATGCC
1440	CAACTACAAA	TGATATTCAA	ATGTCATTAT	GGAGCTGATA	AGCAACTTTA	AATCCTTGGA
1500	GACTGGGATT	TGCTGGCGAA	CTGAAAATGC	ACATATTTTG	AAACAATATT	AAGACGAAGT
1560	CTTGATATTA	ATCAACCTAC	TTGCCGATCC	GGTCCAGACT	TGTCGGTTGG	TATCAGATAA
. 1620	GGGGAAGATA	GTTTGACTCA	CATATTTAGG	AGTACTAAAA	TGTAGGAGAA	TCAAACCTTC
1680	GAGGCTGGTG	ATTGGTTACT	ACTACGAAAA	GGTCTATATG	TAAAAAAGTA	ATGTAGCTGC
1740	GCTTGGTTGA	TGCAGCCCAA	ATAAATACGC	AAACGCTATG	AGATGTTGCT	ATGAGACTAC

CAGATAG	TGC	TTTGATTATT	CCAACTACAT	CTCGTACAGG	GCGTCCAATC	TTGTCTAAGA	1800
rggtacc:	ATT	TACAATACCA	TTTGCATTGT	CAGGAAATAA	AGGTACAAGT	GAACCAGTCT	1860
rgtataa.	ATA	CTTGGAACTT	CAAGACAAGG	CAGTCACTGT	AGATGAATAC	CAAAAAGCTC	1920
AGGAAAA	ATG	GATGAAAGAA	AAAGAAGAGT	СТААТААААА	GGCTCAAGAA	GATCTCGCAA	1980
AACATGT	GAA	ATAACTGTTG	СААААТАТАА	GAAAGGATTT	AGTATTTCCC	TTGAATGCTG	2040
AATCCTT	TTT	TACATTTGTA	AAGAAAGATT	CTAAAATGTA	CGGACCCCCA	AAAGTTGGAG	2100
CCTCTTT	TTG	TCAGAATAGA	GAAAATTTTT	GTTAATTTTA	CTTGTTTCCT	ATTGCTTTCT	2160
CAGCTAT	TAT	TTGTTATATT	AAAAGTATAA	TTATTTTTTA	TTTATCAGAG	TTAAGCATTG	2220
CACTTTC	AGA	GGAAGGAGTA	TTTTTTAAAA	AGAAAATGTA	AACGTTTGCT	CAAAAATGAA	2280
AGGATTT	AGA	agtttatgaa	TAAAGGATTA	TTTGAAAAAC	GTTGTAAATA	TAGTATTCGG	2340
TTTTAAA	CAT	TAGGTGTTGC	TTCTGTTATG	ATTGGAGCTG	CATTCTTTGG	GACAAGTCCG	2400
GTT <b>CTT</b> G	CAG	ATAGCGTGCA	GTCTGGTTCC	ACGGCGAACT	TACCAGCTGA	TTTAGCTACT	2460
GCTCTTG	CAA	CAGCAAAAGA	GAATGATGGG	CGTGATTTTG	AAGCGCCTAA	GGTGGGAGAA	2520
GACCAAG	GTT	CTCCAGAAGT	TACAGATGGA	CCTAAGACAG	AAGAAGAACT	ATTAGCACTT	2580
GAAAAAG	AAA	AACCGGCTGA	AGAAAAACCA	AAAGAGGATA	AACCTGCAGC	TGCTAAACCT	2640
GAAACAC	CTA	AGACGGTAAC	CCCTGAATGG	CAAACGGTAG	CGAATAAAGA	GCAACAGGGA	2700
ACAGTCA	СТА	TCCGAGAAGA	AAAAGGTGTC	CGCTACAACC	AACTATCCTC	AACTGCTCAA	2760
AATGATA	ACG	CAGGCAAACC	AGCCCTGTTT	GAAAAGAAGG	GCTTGACCGT	TGATGCCAAT	2820
GGAAATG	CAA	CTGTTGATTT	AACCTTCAAA	GATGATTCTG	AAAAGGGCAA	ATCACGCTTT	2880
GGTGTCT	TTT	TGAAATTTAA	AGATACCAAG	AATAATGTTT	TTGTCGGTTA	TGACAAGGAT	2940
GGCTGGT	TCT	GGGAGTATAA	ATCTCCAACA	ACTAGCACTT	GGTATAGAGG	TAGTCGTGTT	3000
GCTGCTC	CTG	AAACAGGATC	AACAAACCGT	CTCTCTATCA	CTCTCAAGTC	AGACGGTCAG	3060
CTAAATG	CCA	GCAATAATGA	TGTCAATCTC	TTTGACACAG	TGACTCTACC	AGCTGCGGTC	3120
AATGACC:	ATC	TTAAAAATGA	GAAGAAGATT	CTTCTCAAGG	CGGGCTCTTA	TGACGATGAG	3180
CGAACAG'	ТТG	TTAGCGTTAA	AACGGATAAC	CAAGAGGGGG	TAAAAACAGA	GGATACCCCT	3240
GCTGAAA	AAG	AAACAGGTCC	TGAAGTTGAT	GATAGCAAGG	TGACTTATGA	CACGATTCAG	3300
<b>TCTAAGG</b>	TCC	TCAAAGCAGT	GATTGACCAA	GCCTTCCCTC	GTGTCAAGGA	ATACAGCTTG	3360
AACGGGC.	ATA	CTTTGCCAGG	ACAGGTGCAA	CAGTTCAACC	AAGTCTTTAT	CAATAACCAC	3420
CGAATCA	CCC	CTGAAGTCAC	TTATAAGAAA	ATCAATGAGA	CAACAGCAGA	GTACTTGATG	3480

			974			
AAGCTTCGCG	ATGATGCTCA	CTTAATCAAT	GCGGAAATGA	CAGTACGCTT	GCAAGTTGTA	3540
GACAATCAAT	TGCACTTTGA	TGTGACTAAG	ATTGTCAACC	ACAATCAAGT	CACTCCAGGT	3600
CAAAAGATTG	ATGACGAAAG	CAAACTACTT	TCTTCTATTA	GTTTCCTCGG	CAATGCTTTA	3660
GTCTCTGTTT	CTAGTAATCA	AACTGGTGCT	AAGTTTGATG	GGGCAACCAT	GTCAAACAAT	3720
ACGCATGTCA	GCGGAGATGA	TCATATCGAT	GTAACCAATC	CAATGAAGGA	TTTGGCTAAG	3780
GGTTACATGT	ATGGATTTGT	TTCTACAGAT	AAGCTTGCTG	CTGGTGTTTĢ	GAGTAACTCT	3840
CAAAACAGCT	ATGGTGGTGG	TTCGAATGAC	TGGACTCGTT	TGACAGCTTA	TAAAGAAACA	3900
GTCGGAAATG	CCAACTATGT	AGGAATCCAC	AGCTCTGAAT	GGCAATGGGA	AAAAGCTTAT	3960
AAGGGCATTG	TTTTCCCAGA	ATACACGAAG	GAACTTCCAA	GTGCTAAGGT	TGTTATCACT	4020
GAAGATGCCA	ATGCAGACAA	GAACGTTGAT	TGGCAAGATG	GTGCCATTGC	TTATCGTAGC	4080
ATTATGAACA	ATCCTCAAGG	TTGGGAAAAA	GTTAAGGATA	TCACAGCTTA	CCGTATCGCG	4140
ATGAACTTTG	GTTCTCAAGC	ACAAAACCCA	TTCCTTATGA	CCTTGGATGG	TATCAAGAAA	4200
ATCAATCTCC	ATACAGATGG	TCTTGGGCAA	GGTGTTCTCC	TTAAAGGATA	TGGTAGCGAA	4260
GGCCATGACT	CTGGTCACTT	GAACTATGCT	GATATTGGTA	AGCGTATCGG	TGGTGTCGAA	4320
GACTTCAAGA	CCCTAATTGA	GAAGGCTAAG	AAATATGGAG	CTCATCTAGG	TATCCACGTT	4380
AACGCTTCAG	AAACTTATCC	TGAGTCTAAA	TACTTCAATG	ААААААТТСТ	CCGTAAGAAT	4440
CCAGATGGAA	GCTATAGCTA	TGGTTGGAAC	TGGCTAGATC	AAGGTATCAA	CATTGATGCT	4500
GCCTATGACC	TAGCTCATGG	TCGTTTGGCA	CGTTGGGAAG	ATTTGAAGAA	AAAACTTGGT	4560
GACGGTCTCG	ACTITATCIA	TGTGGACGTT	TGGGGTAATG	GTCAATCAGG	TGATAACGGT	4620
GCCTGGGCTA	CCCACGTTCT	TGCTAAAGAA	ATTAACAAAC	AAGGCTGGCG	CTTTGCGATC	4680
GAGTGGGGCC	ATGGTGGTGA	GTACGACTCT	ACCTTCCATC	ACTGGGCAGC	TGACTTGACC	4740
TACGGTGGCT	ACACCAATAA	AGGTATCAAC	AGTGCCATCA	CCCGCTTTAT	CCGTAACCAC	4800
CAAAAAGATG	CTTGGGTAGG	GGACTACAGA	AGTTATGGTG	GTGCAGCCAA	CTATCCACTG	4860
CTAGGTGGCT	ACAGCATGAA	AGACTTTGAA	GGCTGGCAGG	GAAGAAGTGA	CTACAATGGC	4920
TATGTAACCA	ACTTATTTGC	CCATGACGTC	ATGACTAAGT	ACTTCCAACA	CTTCACTGTA	4980
AGTAAATGGG	AAAATGGTAC	ACCGGTGACT	ATGACCGATA	ACGGTAGCAC	CTATAAATGG	5040
ACTCCAGAAA	TGCGAGTGGA	ATTGGTAGAT	GCTGACAATA	ATAAAGTAGT	TGTAACTCGT	5100
AAGTCAAATG	ATGTCAATAG	TCCACAATAT	CGCGAACGTA	CAGTAACGCT	CAACGGACGT	5160
GTCATCCAAG	ATGGTTCAGC	TTACTTGACT	CCTTGGAACT	GGGATGCAAA	TGGTAAGAAA	5220
CTTTCTACTG	ATAAGGAAAA	GATGTACTAC	TTCAATACGC	AGGCCGGTGC	AACAACTTGG	5280

ACC	CTTCCAA	GCGATTGGGC	AAAGAGCAAG	GTTTACCTTT	ACAAGCTAAC	TGACCAAGGT	5340
AAG.	ACAGAAG	AGCAAGAACT	AACTGTAAAA	GATGGTAAAA	TTACCCTAGA	TCTTCTAGCA	5400
AAT	CAACCAT	ACGTTCTCTA	TCGTTCGAAA	CAAACTAATC	CTGAAATGTC	ATGGAGTGAA	5460
GGC.	ATGCACA	TCTATGACCA	AGGATTTAAT	AGCGGTACCT	TGAAACATTG	GACCATTTCA	5520
GGC	GATGCTT	CTAAGGCAGA	AATTGTCAAG	TCTCAAGGGG	CAAACGATAT	GCTTCGTATT	5580
CAA	GGAAACA	AAGAAAAAGT	TAGTCTCACT	CAGAAATTAA	CTGGCTTGAA	ACCAAATACC	5640
AAG'	TATGCCG	TTTATGTTGG	TGTAGATAAC	CGTAGTAATG	CCAAGGCAAG	TATCACTGTG	5700
AAT.	ACTGGTG	AAAAAGAAGT	GACTACTTAT	ACCAATAAGT	CTCTCGCGCT	CAACTATGTT	5760
AAG	GCCTACG	CCCACAATAC	ACGTCGTGAC	AATGCTACAG	TTGACGATAC	AAGTTACTTC	5820
CAA	AACATGT	ACGCCTTCTT	TACAACTGGA	GCGGACGTCT	CAAATGTTAC	TCTGACATTG	5880
AGT	CGTGAAG	CTGGTGATCA	AGCAACTTAC	TTTGATGAAA	TTCGTACCTT	TGAAAACAAT	5940
TCA	AGCATGT	ACGGAGACAA	GCATGATACA	GGTAAAGGCA	CCTTCAAGCA	AGACTTTGAA	6000
AAT	GTTGCTC	AGGGTATCTT	CCCATTTGTA	GTGGGTGGTG	TCGAAGGTGT	TGAAGATAAC	6060
CGC	ACTCACT	TGTCTGAAAA	ACACAATCCA	TATACACAAC	GTGGTTGGAA	TGGTAAGAAA	6120
GTC	GATGATG	TTATCGAAGG	AAATTGGTCA	CTCAAGACAA	ATGGACTAGT	GAGCCGTCGT	6180
AAC	TTGGTTT	ACCAAACCAT	CCCACAAAAC	TTCCGTTTTG	AAGCAGGTAA	GACCTACCGT	6240
GTA.	ACCTTTG	AATACGAAGC	AGGATCAGAC	AATACCTATG	CTTTTGTAGT	CGGTAAGGGA	6300
GA'A'	TTCCAGT	CAGGTCGTCG	TGGTACTCAA	GCAAGCAACT	TGGAAATGCA	TGAATTGCCA	6360
AAT.	ACTTGGA	CAGATTCTAA	GAAAGCCAÁG	AAGGCAACCT	TCCTTGTGAC	AGGTGCAGAA	6420
ACA	GGCGATA	CTTGGGTAGG	TATCTACTCA	ACTGGAAATG	CAAGTAATAC	TCGTGGTGAT	6480
TCT	GGTGGAA	ATGCCAACTT	CCGTGGTTAT	AACGACTTCA	TGATGGATAA	TCTTCAAATC	6540
GAA	GAAATTA	CCCTAACAGG	TAAGATGTTG	ACAGAAAATG	CTCTGAAGAA	CTACTTGCCA	6600
ACG	GTTGCCA	TGACTAACTA	CACCAAAGAG	TCTATGGATG	CTTTGAAAGA	GGCGGTCTTT	6660
AAC	CTCAGTC	AGGCCGATGA	TGATATCAGT	GTGGAAGAAG	CGCGTGCAGA	GATTGCCAAG	6720
ATT	GAAGCTT	TGAAGAATGC	TTTGGTTCAG	AAGAAGACGG	CTTTGGTAGC	AGATGACTTT	6780
GCA	agtctta	CAGCTCCTGC	TCAGGCTCAA	GAAGGTCTTG	CAAATGCCTT	TGATGGCAAT	6840
GTG'	TCTAGTC	TATGGCATAC	ATCTTGGAAT	GGTGGAGATG	TAGGCAAGCC	TGCAAĆTATG	6900
GTC	TTGAAAG	AACCAACTGA	AATCACAGGA	CTTCGCTATG	TTCCGCGTGG	ATCAGGTTCA	6960
א א מע	വാന്ത്ര വേണ	, <b>-</b>	CAAACOOOCOO	CTCACACATIC	A CTCTCCC A A	CCACCAMACC	7020

976 TTTACTGCAA CTGATTGGCC AAATAACAAC AAACCAAAAG ATATTGACTT TGGTAAGACA 7080 ATCAAGGCTA AGAAAATTGT CCTTACTGGT ACCAAGACAT ACGGAGATGG TGGAGATAAA 7140 TACCAATCTG CAGCGGAACT TATCTTTACT CGTCCACAGG TAGCAGAAAC ACCTCTTGAC 7200 TTGTCAGGCT ATGAAGCAGC TTTGGTTAAG GCTCAGAAAT TAACAGACAA AGACAATCAA 7260 GAGGAAGTAG CTAGCGTTCA GGCAAGCATG AAATATGCGA CGGATAACCA TCTCTTGACG 7320 GAAAGAATGG TGGAATACTT TGCAGATTAT CTCAACCAAT TAAAAGATTC TGCTACGAAA 7380 CCAGATGCTC CAACTGTAGA GAAACCTGAG TTTAAACTTA GATCTTTAGC TTCCGAGCAA 7440 GGTAAGACGC CAGATTATAA GCAAGAAATA GCTAGACCAG AAACACCTGA ACAAATCTTG 7500 CCAGCAACAG GTGAGAGTCA ATCTGACACA GCCCTCATCC TAGCAAGTGT TAGTCTAGCC 7560 CTATCTGCTC TCTTTGTAGT AAAAACGAAG AAAGACTAGT ATTTAGTAAA ACCTCTTAAC 7620 AAGATTACGG AAGCAGTCTC TATCTTTTCC AATGAGGTTT ATAGTACAGA AAAAGCCTGA 7680 GAAGATGTCT TCTCAGGCTT TTGTTAAGCA CATAAATACA ATAGTGCTAT GACAAAATCA 7740 CCCAGAAAAA TCTGGGTGAT AAATGTTATG GTTGTGCTGG TTGAGGATTC TGATTTTGTT 7800 GATCAGGGGT TGTATTTGAT TGTTGCGTAT TATTGTTAGG ATTGGTAGTC GTACTATTAT 7860 TTGTGCTTGG AGTGGTTGAG CTAGACTGTG AAGTTGAACT ATCTGATGAT GAGCTTGAAC 7920 TTTCAGTTGA TGGGGGTTGT TGTGGAGCAG GTGAGTTCCA CGTAGAACGA GCACCATTTT 7980 TAAATACGAA TTCTCCATTT CTGTAGAGCC CCTCTGGTAT ATTCCAATCT TCTGGATTGC 8040 TTCCTTCAGA CAGGTAGGTC ATCATAGAGC GGTAAACTTT GGCAGCGACC GTAAGGCCAT 8100 TGCCTACAAG TGGTGTCAGA CGGTTAGAAT AGCCTGTCCA TACAGCCATT GAATATTTAC 8160 GCGTATAGCC AGCAAATAGT TCATCAGGTG CTACAAATTG AGAGGTCTTG ATGTGGTTTT 8220 CAATTTCCTC GTCTGTATAG TTAGAGGTTC CTGTTTTACC AGCCTGAGGG AGCCAAGCAA 8280 GATAGGCATT TCGTCCAGTT CCATAAGTCA AGACTGTTTT CATCATGTCG GTCATCATAT 8340 AGGCTGTCGT TTCCTTCATG GCACGAGTTC CGACATTAGA GAACTCTTTT TCACTCCCAT 8400 CACTAAAGAC GACTTTATGG ATATACATTG GTTTATAGTA AGTTCCACCA TTTGCAAAGG 8460 CAGCGTAAGC AGCAGCCATC TTTTCACTAC TTGCTCCATA TTTTTTGTCT GATTCGGTTG 8520 TGTTACTTGA AATGGCATTT GAGTAGTGAA TACTTGGGTA GTCGATTCCT AGACCATTTA 8580 GGAAAGTCTT GGCGCGGTTG AGTCCGACCT TGTTTAGAGT TTCCACGGCT GGGACGTTTC 8640 GCGATTGTTG CAGGGCGTAT TGCAAGGTGA TGTTGCCAAA GTAGCCCCTA TCCCAGTTAT 8700 AAACAGGAGT ATTTGTCCCA GGGTAGTTAT AGGGCTCATC GTGAACGATA GTAGCAGTTG 8760 AATCGTAGAC ACCGTACTCC AAGGCAGGAG CATAGTCTGT GATCGGTTTC ATAGTTGATC 8820

CCCAGTCGCG	GTTTGTTTCT	ACTGCTTGGT	TAATTCCGAA	GGAAACATTA	CTTGACTGAT	8880
GGCGTGCTCC	TAGCTGGGCA	ATGACTTTAC	CGTTAGAAAC	ATCAACAATG	GTAGAAGCGA	8940
CTTGCAATTC	ATCGTCTGGA	TAGGCAACGT	ATTCGTCTGT	ATTGTAAATA	TCCCACAGAT	9000
GTTTTTGAGC	TTCTTGGTCT	ACATTTGTGT	AGACATCCAT	CCCAGTTGTG	AGTAGGTTAT	9060
AGCCTGTTTC	TTCTTCAACT	TGATTGATGA	CTTCCTTGAG	GTAATTATCC	ATGTAAGCAG	9120
GGTAATTACT	TGCTGATTTG	AGACTTTGTA	GTCCATCAGT	AATTGGTGTA	TTGACTGCTT	9180
TCTCATACTG	TTCAGCAGAG	ATGTAGCCTT	GATTTTTCAT	TTCAGATAAG	ACCAAGTTTC	9240
GGCGGTCTTG	GGCTGCTTCT	GGATGTGAAT	AGGGGTCATA	TTGGTTTGGT	GCCTGAGGCA	9300
TTCCAGCCAG	CAAGGCTAAC	TGAGGTAAAC	TTAAATTATT	GAGGTCTTTA	CCATAGTAGT	9360
TTTGAGCTGC	TGTCTGCATT	CCATAGTTCC	CATTAGACAT	GTAGACCTTA	TTTATATAGT	9420
AGGTCAAGAT	TTCTTGCTTG	GTTGCTTTTT	GTTCTAACTG	AATCGCTAAC	CAAGCTTCCT	9480
GAGCCTTACG	AGAAATAGTC	TGGTCGGAAG	TCGAAGTTGA	AAAGTAAGTC	AACTTAATCA	9540
ACTGTTGGGT	GAGAGTTGAT	CCACCTTGGA	GGGAATTGCT	TTGCAGATTG	CGCAAGAAAG	9600
CTCCCAGGAT	ACGGATGGTA	TCAATCCCCC	TGTGGTCGAA	GAAGCGATGG	TCTTCGATAG	9660
AAACGATTGC	CTTAACCAAA	TCTGTGGGAA	TATCATTAGC	TTGGGCATTG	ACGCGGCGTT	9720
CAGAACCCAA	GTCAGCAATG	AGTTGATTTT	TATTGTCGTA	GATTTTACTA	GAAGTTGTTG	9780
CAACTAGTTT	ACTCTCGGAT	AGGCTAGGAG	CCTTGCTAAC	GTAGTAGAAA	AAAACTCCTC	9840
CGCCTAAGAC	AATGGCTGCG	ATAACCAAGC	TTAAGAAGCT	AATGCTCAGA	TACTTGATTA	9900
GGCGCAGAAT	CGTTGGTTTG	TTCATCTTGT	TTTACCACCT	AATAAATGTT	CTTTGATAAC	9960
ATTGAGATAA	GGAATTTGAG	GGAAGGCACC	AGCCTTGATT	TCATATCCAT	ATTCTCGAAT	10020
ATATTCAAGT	GGCATTGATT	TTTGTCCCTT	ATCTTGATGA	TAGAAGCGAA	TCAAATCGAA	10080
TGCCGGCAAT	AAGTAGGTTT	CTTGCTGAGA	AGAAAAGTGA	AGAAGGACAA	AGCAGATTCC	10140
TTGTTGGGCA	AGGACTTGTT	CCATATGCTG	AATCTGATGT	GGATGAAAAT	TTTTCATCGG	10200
AATCGCACGT	TTTTGTTTTG	TTTCCTTGAC	TTCAAAGTCG	ATGTAATATC	CATTATAAAC	10260
GCCAGAATAG	TCCGTCGTTG	AAGCTTGTCG	AAAATAGGCT	TCAACAATCT	TGGCACGACT	10320
TCGTTGTGGA	TAGTCCACTT	GTACGATTTG	AATAGGAGTT	GGTTTCTTAT	GTATAACAGC	10380
CAAGCCCTGA	GACAAATAGT	AGTCGTTGGT	AGCATTGATC	ATCTTTTCAA	AGGGTACCGA	10440
GCTCGAATTC	GTAATCATGT	CATAGCTGTT	TCCTGTGTGA	AATTGTTATC	CGCTCACAAT	10500
TCCACACAAC	ATACGAGCCG	GAAGCATAAA	GTGTAAAGCC	TGGGGTGCCT	AATGAGTGAG	10560

CTAACTCACA	TTAATTGCGT	TGCGCTCACT	978 GCCCGCTTTC	CAGTCGGGAA	ACCTGTCGTG	10620
CCAGCTGCAT	TAATGAATCG	GCCAACGCGC	GGGGAGAGGC	GGTTTGCGTA	TTGGGCGCTC	10680
TTCCGCTTCC	TCGCTCACTG	ACTCGCTGCG	С			10711

#### (2) INFORMATION FOR SEQ ID NO: 146:

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 11887 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double
   (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 146:

TACATTCATT	CCATCGGCTA	CTCCATAATA	CTTAGATAAA	ACCATAGCTG	AAGTCGAATA	60
CGGATACTGT	AAAGTATTAT	CAATTTTAAT	CAAATCATCA	TTACCGATAA	TACTTCTGAT	120
TGCTTTTGGT	AGTATGAACC	ATACGTTGGT	GAAATCTCAG	ATAATGAAGA	ATCATTAGAC	180
TCTGGACCTT	TTTCTAGTGT	CTCACTTACC	TCATATTCTT	CACCCTTACT	AGAAATAACA	240
CTCAAAGCAG	ATACTGTCGA	TAACTGGCTA	GCCAATAAAG	TACTCGCAAT	AATTGAAATA	300
CCCAATTTTT	TATAAACAGT	TTTCTTCATT	ATTGTATCCT	CCTAATGTAA	TTATAGCGTA	360
CTATTCTAAA	TTTCTTAATC	TACTATAGAA	TCAAGAAATC	TACCACCTTC	TTTAAATACC	420
CTCCATTATC	ACATAAACAG	GTAAACTTTT	CAATTAATGA	CTGCGCTTTT	CAATCACGCT	480
AGAGGTACTT	GCTTGCTTCT	TTGATACTAA	GTTCAGCCAT	TCTTTCCTTG	TTTTTCTCAA	540
TAAAGCATGT	TACCCAAGTG	GGATTCGTTT	TGGAGTAGTC	TCGCAGAGTC	CAGCCAATGG	600
CTTTATTGAT	AAAAAATTCT	GTTTGGTTCA	AGTTATGAAG	GAGAATCTTT	TCCATTAATT	660
GAGTATTGGT	CTTCTCTTTT	CTTAACAACT	GGTGGTCAAT	AGCGACACGT	CTCAGCCAGA	720
TATTATCTGA	TAGGCTCCAT	TTTATACTCA	ATGAAAATCA	AAGAGCAAAC	TAGGAAGCTA	780
GCCGCAGTTG	CTCAAAACAC	TGTTTTGAGG	TTGCAGATAG	AGCTGACGTG	GTTTGAAGAG	840
ATTTTCGAAG	AGTATTAAGA	TTATTTCTTC	TAGTTCAGGG	TGTTCATACA	CCAAACTCCC	900
TACTACTCGA	TCTAGGATAT	CTACCGTGTC	CCACAAGGAT	TTTGTCACGA	CTAACTGCTC	960
TAGCTTAGGC	AAATCGGTTT	CCTTTAGATA	AGACTGCATT	GCTTTCAAAT	AGTTAGCAGC	1020
CACATATTGG	TATTTTCTAG	GATCCTTTTC	CCAGCAAGTG	TCTGCAAAAT	CCCAATCGAT	1080
AATCTTTGTT	TTTTTCGCTT	CTGGAAAATA	TTTTATAGAG	TTTATTTCTT	TCAGGCACCG	1140
CAATACCTAG	AAAAGAAAAT	TGATGGCGCA	TATAGGCTTC	CATGGACCTT	GCTTTTTTAG	1200
AGTCTTTTGC	TGCTTCTAGC	TCCTCAAGTA	AATCTGCTAA	ACTCATCTAA	AACTCCTCTT	1260

GCCCCACC	AA	ATGGTGCTGA	AAGGCATAGA	CAGCCGCCTG	GGTACGATCG	CTGACTTCAA	1320
GTTTGGCA	AG	AATATTGGAC	ACGTGGGTCT	TGACCGTCTT	GAGAGAGATA	AAGAGGTCAT	1380
CTGCGATG	CG	CTGATTTTCG	TAGCCCTTGG	CGATGAGTTG	GAGAACATCT	CGCTCACGCG	1440
CAGTCAAT	TC	TTCATGAAGT	TCCATATGAT	TGCGGTGGTA	TTCAACCTTC	TTGCTAACCT	1500
CTTGCTCA	ΑТ	GGCCAGCTCG	CCAGCAGCTA	CCTTACTGAC	GGCATGAAGC	AATTCATCTG	1560
CACTAGAA	GT	CTTGAGCATA	TAGCCTTTGG	CACCAGCATC	TAAGACTGGC	ATGATTTTTT	1620
CATTGTCC	AA	ATAAGAGGTC	ACAATCAAAA	TCTTGGCTTC	AGGCCATTCT	TTAAGGATTG	1680
CTAAGGTC	GC	GTCAATCCCA	TTCATCTCAG	GCATGACAAT	ATCCATGACA	ATGACATCTG	1740
GACGCAGT	TC	CAAGGCCAAG	TCAATCCCTT	GAGACCCGTT	GGACGCCTCA	CCCACAACTT	1800
CTACATCG	TC	TTGGAGGTCA	AAGTAGCTTT	TCAAGCCCAA	TCGGACCATT	TCATGGTCAT	1860
CTACTAGT	AA	AATTTTCATC	TTTACTCCTT	TATCATTCCT	TATCTAACAG	GGGAATACGG	1920
ATATCAAC	CG	CCAGCCCTTG	CTTGGGAGCT	GTCAAGAGTT	GAACTGTTCC	AGCCATATCT	1980
TCAACCCG	CT	CCTTGATATT	TCGCAGTCCA	TAACTCAAGT	CGTCTAAGCT	CCCTAACTGG	2040
AAACCAAT	CC	CATTGTCCAC	CACCTTCAGT	TGCAATTCAA	CATCTGTCTG	ATAGAGGTAG	2100
ACATCTAG	GC	AAGATGCCTG	GGCATGGCGG	AGGGTATTGC	TAATCAACTC	TTGCAGGATA	2160
CGGAAGAT	ΑТ	GCTCCTCGAT	TTTCTTAGGC	AATTTCGTCA	TATTCTGCTT	GAGACTAACC	2220
CTAAGATC	AC	TCTTGTCCTC	AAGCTCTTTT	AAAAGAATTT	GAATCCCTTC	TATCAAGCTC	2280
TTCTGCTC	CA	GTTCAACTGG	TCGCAAATGC	AAGAGCAAAA	CCCGCAAATC	CTTCTGGGCT	2340
GTTTCTAA	AA	TAGCTGTGAC	ACTCTGCAAC	TGGGTCTGCA	TCTTTTCTCT	ATCCAATTTC	2400
AAAGCCTG	СT	GACTGATACC	CGATAAAATC	ATGTGGGCCG	CAAACAACTC	CTGACTGACT	2460
GTATCGTG	CA	AATCCCGAGC	AATTCGCTTC	CGTTCCTTCT	CGATGATTTC	CTCTTCCTGA	2520
GCAAGGCT	CT	GATTTTCAGC	TTTTTGAAGA	GCCTCTGTCA	AAAGGTTAAG	TTTACCTGAT	2580
AAGGACTT	GΑ	AACTGGCATC	CAAATCTGGA	TCTGCAACCT	GAACCACTTC	TTGCCCTGCT	2640
AATAAACG	СТ	TGAGATTAGC	CTGCATTTTT	CTTAGAGAAA	GCTCTTCGAT	CCCTCGCCAA	2700
AAÇAGGGC	TA	AGAGACAGGT	CATGGACATG	CTGAAAACCA	ACAATAAAAA	GACAAATTTT	2760
TCTGTTTT	ТT	CGACATCGTG	CAAAAAGATA	GACCAGTCAA	AATCAAGTAT	TTCCAGCAAG	2820
CTGTGGGA	GA	AAAAAAAGAC	Aaataggaag	GAGGTGAGAG	CAATAATGAC	ATAGGCTTGT	2880
TTTTTCAT	CC	TCTAACCACC	TCCACATCAC	CAATCATAGT	GGTCAAGAAA	ATCTTGACAC	2940
TCTTGTTA	СТ	CTTGAGATAG	TCTTTTGTTT	CTTGATGATA	GTGTTCATTG	CGGAGGGCTC	3000

GCTTGGGCTG	GTTGAAAAAA	ATCAAATCCC	980 CATAGAGACA	GTTAACGCTG	AGACTGACTT	3060
	AGGTACGATG					3120
	GGTTAAGATG					3180
	ATCATCGAAT					3240
	TTTCTCCTTC			-		3300
	GTTCATCATC					3360
	CACAAAAGGA					3420
CTAAAAGAAG	ATTATTTCCC	TCTTTACCAG	TGTAGTAGCG	AATCAAAAGC	AAAAAGAGGA	3480
ATAGTATCAG	CAGAAAACGC	GAAAAATGCT	CTGATACCAT	CAAAATCAGA	GCTCCTGTCA	3540
GAAGACAGGC	TTCGATAAAT	AAAAAGATTT	TAAATTTTCT	CATAGGTTCA	TCCTCTCCCT	3600
TCTATTTTAT	CACAATTCAA	AAAAGTCACC	TCAGTCTGAG	GATGGAAAAA	AGGCGCTGGT	3660
TACGCCTTTT	TCATCTGATC	CTTTGCTTCT	TTTAATTTTC	CATAAAGAAG	ATAGTCTACT	3720
TTTTGTAGAT	CTGCTATGGT	GGCACAGTTA	AGGGAACACA	TAATCAAGCG	TAGATCTGCT	3780
TTCCAGCCTT	GGACAATGCC	AATCACTTCT	TCAACTGTGT	AGGTTTCAAC	CAATTCCAGA	3840
ACGGTTCGTG	ACAATCCCAC	AGCCTTAGCA	CCAAAAACCA	AGCACTTAAT	CATATCCAGC	3900
GGATTCCGAA	CCCCTCCACT	AACCAAGAGT	TCGACCTTAT	CTTTCCATTC	TTGGGCATTG	3960
AGAAGGGCCT	GCATGGTAGA	CTGACCCCAT	TGATTGAGGT	AATCACGCTG	GCCACTACGA	4020
CGGTTTTCGA	TATAGGCAAA	GCTGGTGCCA	CCACGACCCG	ATAGGTCCAC	TGTACGAACA	4080
CCGAATTCAT	AGGCTCTTTC	GATTGTCTTG	GCATCCATTC	CAAAGCCCAC	TTCCTTGAGG	4140
ACAATAGGAA	CGGGAATTTG	CTTGCTATAA	TCTGCTAGAT	GCGATTGCCA	GCTTCTAAAC	4200
TTCCTTTCTC	CCTCGGGCAT	GAGTAATTCC	TGCATGACAT	TGACATGCAC	TTGCAATAGA	4260
ACAGGATTCA	TCTCTTCTAC	AGTCTGAAGT	CCTAACTCGA	CAGGCTTGTC	CAATCCAATA	4320
TTGGTTCCAA	GGAGGAGATT	GGGATGACTA	GACTTGACAG	AAAAAGAATC	ATCCGTTGGA	4380
TTTTTGAGGG	CTGCGCTATA	AGAACCCGTT	ACAAATAAAA	TACCACAGGA	TTCCGCCACC	4440
TGAGCCAGCT	TTTGATTGAT	TTCTCTTCCC	TTATTACTTC	CACCAGTCAT	GGCATTGATA	4500
TAAAAAGGAA	AGTCCCACTT	TCGACCAGCA	AACTCTGTCG	AAAGATCGAT	TTCATCCAGA	4560
TTGTAAAGAG	GCAAGGAAGA	ATGAATCAGC	TCCACCTCAT	CAAAGCTATT	ATAGGAACTT	4620
TTCTGCTCAA	GGGCATAGAG	GATATGCTCG	TCCTTACGAT	TTGTCGTCAT	GTCCTATCCT	4680
TTCTTGATAT	AAGAGCTCAA	TCCCCAGATC	GGCCCAACGA	TTTTTTAAGG	TTTTGGTTGA	4740
TTGCGCATCA	AAACTCAGGG	CGATGCCACA	GTCACCACCA	CCAGCACCAC	TACTCTTGGC	4800

AACGGTCTGC	AAATCTTGAC	TGGCTTCTTT	CAACTGTCTA	AGCAAAGGCG	TGTAAATATC	4860
rgtactcaag	CCTTCTAAAA	GCTTGCTGGC	TACTTCTACT	TGATCGATAA	TCTTTTCTGA	4920
PTTCCCCTGT	TCCAAGGCTT	CTACCAGAGA	AGTCACCGTT	TCTTTTGAGG	aagttaaaa	4980
ATTTTGATTG	ATATTTTGCT	TGATTTGCTG	GACCATGTGA	CTCGATACAG	CCACTTCCTT	5040
GCTCCATCCC	ACTAAGAAAT	CACATTCTAA	AGTTGGTTTC	ACTTGTGAAA	TTGAAAAGCC	5100
CCAATCACGC	TCCAGAACTG	TCGCCAAGTT	ТТСТТСТТСТ	AACCAAGCAG	CCACCTTCTG	5160
GCGATCAAAT	GACTGGTAGA	GAACCAAATC	CTCTGCCACA	ATACAGGCAA	GGTCGCCCAT	5220
GGAACCATTG	TCTCCTCGCT	TAAGCAAGAC	AGCGCTAGTC	AGCTTGAACA	AGAGCTCCTG	5280
ATCAACAGAA	ACATCATACA	GAGCCAGTAA	AGCCTTGACA	ACCAAGACAA	CGACGCTGCC	5340
ACTAGAACCT	AGACCAAACT	TTTTCCCTTC	TCGTTCCATT	TTGCCACAGA	TTTCTAGAGA	5400
<b>AAAA</b> GGTCTT	AAATTCTGAC	CACGAACAGC	GAGGAAGTCT	CCCATCAAAG	CAATCGTTTC	5460
TTGAATCAAG	CTATAGTCAG	GATTAGGCCT	TAAGTCCACT	GCGAAATCAA	ACATATCTGA	5520
ATAGATACGG	TAGCTGTCAG	AAAAAGCAAT	CTCAGCCCTC	ATATAGATGG	GAATATCCTT	5580
FATCAAAGCT	AACTGCCCTG	GCTCTAAAAT	AGCATATTCA	CCTGCCCAAT	AGAGTTTTCC	5640
GCAAGTTTTA	ACAGCAATCA	TCTTGACTCA	AATCCTTTGT	TTTTGACACA	ATCAAGCGAT	5700
AACGATGACC	GAAAATTTCT	GATAAATGCT	CCAAGTCTTT	CTCCTGACAG	AAGACCTTAA	5760
CATTGGGACC	AGCATCCATG	GTAAAGTAGC	AGGCCTCTCC	TTTCTCACGA	AGCTGGCGAA	5820
CAAAGGCCAT	AGCCTCATAA	GAGGCATCCG	TCAGATAAGA	AAAGGCTGGA	CTAGCAGTCT	5880
PTGTCGTAGC	ATGCATAGCC	AGGGCATTTT	TCTCCGTTAA	TTCTCCAATC	TTGGCAAAAT	5940
CATTTTCCTT	GAGATAAATC	AGCATATCCT	GATAGTCCTT	CTCAGACTGA	CGAACCCAGT	6000
CGTCGAAAGT	CGTCGAGGTT	TCCACACAAA	GTTTCATCCC	GTCACGGCTA	GAGATTGGTT	6060
PTTTCTTGTC	CTCTAGCACC	AACATAATCA	TAGCTAGTTT	CAAGTCTGTC	TCTACAGGGT	6120
AATTTCTCC	ACTATCCTTA	TCCCAGGCTC	CTAGTGGTCC	ATAAAAACTC	CGAGAAGAAG	6180
ACCTGAGGC	AAATTTGGCT	TCCTGTGCCA	ACTGACTTCT	ATCCAATCCA	AGCTTGAAAT	6240
AGCATTACA	AGCCTTGACC	AGGGCGGACA	AACCACTAGA	ACTTGAGGAC	AGACCCGCTG	6300
CCGTAGGCAT	ATTGTTTTGA	GTATCGATAC	GGACAAAGCC	CTCACCAGCT	GGACGATAAC	6360
GTCAATAAT	CTTACTCATC	TTGGCATGCT	CGACCTCATT	TTGTAGCTGA	CCATTGATGT ~	6420
AAATTCGTC	AGCTGTTACA	TTGGCTGGTA	AAGGCGACAA	GGTCGTCTCT	GTATACATAT	6480
TTCCAAAGT	TAGAGAAATA	CTGCTAGTAG	CAGGCACCAT	СТСТТТТТСТ	ттттсттс	6540

			982			
CCCAATATTT	GATAATAGCA	ATATTTGCGT	AGGAACGTAC	TGTTACAGGC	TCTCTATCCA	6600
TGTCTGAACA	GCTCCTTTCT	CTTCTAATCT	TTCTGCTAGT	TCTTGTGCGT	GTGTCAAATT	6660
GGTTACCAAG	GCTATGATAC	AACCTCCTAG	CCCACCACCG	CTCATCTTGG	CACCCAGAGC	6720
ACCATGGCTA	AGAGTCGTTT	CAACCAAAAA	GTCTGCCTCA	GGGCTACTGA	CTCCAATTTC	6780
TTTTAAATGT	AAATGCGCTT	GACTGAGGAT	TTGTCCCAGT	CCTTCAGCAT	CTTTTTGTGA	6840
AATCGCAACT	TCTGCTTGCT	GGGTTAATTC	TCCCAAGGCA	TGCAAAAACG	GTAGGGCATC	6900
CTTGCCCTTA	TTTTGAACCA	CTTGGATGGC	TTCACGAGTA	TGACCATAAA	CACCCGTATC	6960
GGCAATCACC	AAATAGGCGG	ATAAATCCAT	CTCAAGTTCT	GTAAATCCTA	CGTTCTTGAT	7020
AAAGCGAATA	GGTTGGTCAC	TAAGACAGGT	CTTAGCATCC	AAACCACTAG	GATTCATATG	7080
GGCAATCATT	TCAGCTCGAT	TGACCAAGAT	TTCTAGTACA	TCATGAGGCA	GATCAGCCTG	7140
ATAGTAGTCA	AATACTGCAC	GAATGGCCGC	TATGCTGATA	GCCGCTGACG	AACCCATCCC	7200
CCGTTTCTCA	GGGATAGCCG	AGTCAATCTC	ACAACGAATG	CAGGCTTCTG	TGATATTCAA	7260
ATACTCCAGT	GAGGCATAAA	CCGCCATGGA	CAAGGTATCC	TCCTCATAAA	GGCGCCAAGG	7320
ACTCTCTGCA	GGAACTACCT	TACAGGTCAC	CTCCACCTCC	AAAAGAGGCA	GGGAAATGGC	7380
AGGATAACCG	TAAACGACCG	CATGTTCCCC	TATTAAAATT	ATCTTACTAT	GTGCCTGACC	7440
GACACCAACT	TTTTTTGTCA	TTTTTTCCTT	TTACTAGACG	AAAAAACGTC	TTATTTTTCA	7500
TACAAGTATT	AATTCTTTCC	TATCTATTTT	ATTATATTT	CACAAAAAA	GCGATTGTTT	7560
CCATTCACAA	TCGCTTCTTT	CATTATTGAA	CCCATTCGCC	ATTATAGTTG	ACAGAATAGC	7620
CATCTACGGT	CGTATTCACT	GCCAAGGCAC	CTGAGCGCTA	TAAGCGTAGT	ACCATCTGCC	7680
ATTGACCTGG	AACCAACCTG	TCGTCATAGA	ACGACGAAAG	AAACTCCATA	CCATTAAGTA	7740
AAGAGGAAAG	TCGTGAGGGA	GCATGCGCCA	TTGACAACCT	GTTTTAGTGA	CGTACAAAGT	7800
CTCATTAACA	AGTACTCGTT	TCGGCCATTT	ATAGGTGCGG	TGTTTGGAGA	AATAGGGTTC	7860
AATCTTCGCC	CATTCTTGAT	CGTTTAAATC	AGTATCATAT	GCTTTGCGTA	TCATAACTCT	7920
AGCTTAACAT	TTTTTTGTGA	ATACAGGTTC	TAAATAATCG	ACCACGAAAA	TTTCTTAAGT	7980
GGAAAACGCC	TTATGAAGTA	TGCTACGGGA	AAGTTATGCA	CTTAATTTGA	CAATTCAAGA	8040
rgtaaaaata	TATACTATAG	TAGATTGAAA	CTAGAATAGT	ACACCTCTAC	ТТСТААААТА	8100
PTGTTAGAAA	TCGATTTGAC	TGTCCTGATC	GATTTATCCT	GTTATTATCT	CATTTTACTA	8160
PAATATTTGA	TAAGTTATCC	TAAAAGTATT	ATTATGTTGT	TGTGTTATAG	ATTGATTGAA	8220
TCTAACTAAA	GGATCCTATT	CAATTACTAG	AACTATCACA	TACTCAAGGT	CAGCTCACAG	8280
ATGAGCAACT	ATTTTGGTTA	CAATGTCTAC	TAAATTTAAG	TCAAACAAAT	AATTTAGTCA	8340

7	AAAAATTAA/	AATAGAGGAA	CATAAATATG	ATTACAAAAC	AGAATGTAAT	AGTGTTCTAC	8400
7	\ATTTTTACT	AGATAAAACT	GTAAATTCTG	AAGGAAGGAT	CACTTCTTCA	ACAGAATTTG	8460
C	SAAATTTCGT	AAGTAATTTA	TCATTCCAAC	ACGGAATAGC	TGGACTACTG	TTTCCTCTAA	8520
2	ATAAATTGTA	CCCCCAGAA	CTGGATTCTA	AAATACTCTC	TATCATCAAG	AAGGCAGTGA	8580
C	CAATTAGAAC	GACACACACA	TATGAATATC	AATACTCACT	GCTATTTGGT	GATGCAGGCT	8640
7	ATCTATGGTT	ACTCCTACAT	TTATTTTCTA	TCAGTAAAAA	TCAATACTAT	CTACAATTAG	8700
C	CAAACGTCAC	CGCTAAAAAA	TTAATAGAGA	ATTATGATAC	TCTAGAGGAA	ATAGACTTTG	8760
C	CATTGGGAAA	ATCTGGTGTC	CTATTATCAT	TAATAAAATA	CTATCAATTT	ACCAATGACA	8820
7	ATACTCTTAA	AATTTTCATC	CACAATAGTA	TAGGGGAAAT	ТТАТСАТТАТ	TTCCTACAAA	8880
C	BAGATACAGC	CAAAGAAAGC	ATTTTAGACT	ATAGCTTTGC	TCATGGATAT	TGTGGAATTG	8940
C	CATATGCTTT	ATTTGCCTAT	TCTAAAGTCT	TAGAACCTTC	TATGTTTTAT	AATGATCTCC	9000
,	ATACATTCCA	TACTGAATTA	AAAAAATTAT	TAGAAAAAGT	TACTTCTAAT	ACTGAAAATT	9060
3	PAGGAAATTT	ACAACTTTCT	TGGTGCAAAG	GAATTTCCGG	AATAATCTTA	TATCTTTGTA	9120
7	PGTACGATTG	TGACGGAAAC	AAAGATATTA	TTAGTAAATA	TCAAGAATTT	GTTTTTAACC	9180
7	ATCATCTAAA	AATGATGACA	GGATATTGCC	ACGGAATAAC	TAGCTTACTA	CAAACCACTG	9240
7	CTACAATCA	AAACAAATTA	CTGATGAAAA	AAATCCAACA	GGTAATTTTA	GCATGTTCTG	9300
7	ACGAGATGA	TCACGGTTTA	CTGATGTTTC	AAGGAGATAG	TGGTAAAGCA	GATTTGTTTG	9360
7	ACTTCGGAAT	AGGAAGCATG	GGGTATATTG	GTGTCTATTA	TAAATAATAA	TCCCATTCGA	9420
7	TGTGCAGACA	TAAGGAGAAA	AGTATGAAAT	TATTTTGGAC	AAACAACATA	TATAGACAGT	9480
1	GCTGCTAAA	CAGCTGTTTT	TCATCATTCG	GCGACAGTAT	TTTCTACCTC	GCCATTATCA	9540
į	ATTATGTGGC	TCAGTACAAT	TTCGCTCCGC	TAGCGATTTT	ACTGATTTCC	ATTTCAGAGA	9600
1	GGTTCCCCT	ACTATCGCAA	CTCTTTCTCG	GGATTCTAGG	AGATTTTCAA	GAAAATAGAG	9660
7	CAAACACGC	ACTCTGGATT	GCCAAAATCA	AAATCCTGCT	CTACGCTATT	TTGACAGTAT	9720
1	PTCTCGTCTT	GTCGCCCTTT	TCATTAGTTT	CAGTCATTAT	GATTGTCATC	ATCAACCTCA	9780
7	PCTCTGACAC	CTTGAGCTAC	CTGTCTGCCT	ACATGATGAA	CGCCCTCTAC	ATCAGTGTAA	9840
7	TAAGGACGA	CCTGCATGAT	GCCATGGGGT	TCAGGCAGTC	TCTGATGAGG	GTTGTCCGTA	9900
7	TTGTCGCCAA	TCTGGCTGGC	GCATTCCTTA	TCAATGTTAT	AAGTATTCAA	ACTATTTCCC	9960
7	TATCAACAC	TCTGACTTTT	GTCATTGCCT	TTTTGGGCCT	GTATGTTATT	CGACATACCT	10020
7	GTATGAGGT	TGAAAAAAGA	ATTGAAATGT	CACATACAGC	ACTGAGTTTT	AAGAAATATT	10080

984 TTCAACATCT TAAACAGTCG CTGGCTGTGC TCCTGAGGTT AAAAGATACC GTCATACTAC 10140 TGTTTCTGAC GACCAGTATG ATTGCCATCT TGGATGTGTC CCCTCGGCTG ATTGCCCTCC 10200 GCTTCATCCA ACAGACACTA GCACAACTGA GCATTGGGCA ACTCCTCGCC CTGCTCTCCA 10260 TCATCATGTC TTGTGGAGCT ATCCTTGGCA ATATGACCAG CAGTAATCTA TTTAAAAATA 10320 TCCGTTTCAC GCACCTCTTG GTTTTCTGTG AGATTTCCCT ATTGACTCTA ATAACTAGTA 10380 TCCTTTGTCA AGCCTATATC GTAATTTTCA TGACCAGTTT CATCAGTTCT ACGATTATCG 10440 GCATTCTCAG CCCTCGCCTA CAAGCAGCTG TCTTTGCCCA TATCCCCAGT GACAAGATGG 10500 GGACGGTGGG CTCTGCTCTG AGCACAGTGG ACATTCTCGC CCCGTCCCTG CTCTCCCTAT 10560 TAGCCCTATC CATAGCATCG GGCGTTTCGG TGCAGTTAGC ATTGATATTT TTGTATCTTA 10620 TTTTAATTGC TCTTATCTTT TGTCAATGGT TAGTCAAGTT CAACACTCAT AACTAACGAA 10680 AAAGCATGTG TAGATTTCAC ATGCTTTTAA TCTCCCCAAT CGTCAGGTCA AGTACAACAA 10740 AGTCACTTCT TTGATTAAGC GAGTGTTCTA ATATAATTAT AAGCGCCCTG TCATTACCGA 10800 ACCCATTCGC CATTATAGTT GACAGAATAG CCATCTACGG TCGTATTCAC TGCCAAAGCA 10860 CCTGAGCTAT AAGCATAGTA CCAGTTGCCA TTGACCTGGA ACCAACCTGT CTTCATGTCT 10920 CCATTACCTG CATTTAGGTA GTACCAAGTT GAACCATCTT GATACCAACC AGTTGCCATA 10980 GCTCCTGATG AACGGAGATA GTACCATTTG TTCCCAAGGT TTTGCCAACC TGTTTTCATA 11040 TCGCCATTTG GGTGGTCTAA ATAATACCAA GTGGTACCTT CCTGATACCA GCCAGTGGCC 11100 ATTGCTCCTG AGGAACGGAG GTAGTACCAC TTATTACCTA GATATTGCCA ACCTGTTTGC 11160 ATAATACCAG TTGTTGGATC TAGGTAGTAC CAAGTCGAAT CATCGTTTAT CCACCCGCA 11220 CGTCTTTCAC CACCAAGGTA GTTTTCTCCA TTAATTTCCG TCTTAGCTAG ATAATACCAG 11280 TTAGACTGAT CATAAAGCCA ACCTGTCTCT AAAGAATGAT TTTGATTAAA GTAATAGTTC 11340 GTATAATAAC GCTTCTCTTC TTTATCTTCT GAATCTTCAC GTTTTTCCCC GTACTTTCTT 11400 CCAACACTGT CTTTAGTTTT AATCTCTAAT GTTTTCCAAC CAACAACTC TTGTAGCACT 11460 CCATTTTAT CGAAGTAGTA CCACTCTGAC TTTGGAAAAC CTTCTAATCT GATACCATTT 11520 GGGTAAGGAC CAATTGTACT ACCTTTAGAT GGAAACGGGA TATATTGCCA GCCGACAACC 11580 ATCTCTCCAG ATAGAGAATC AAAATAATAG TACTTACCAT CAATCACTCG CCAGTAGGTT 11640 TCTTTGAGGT CCCCCTTTTT GTAGTAGGTT CTTCCGTTTT CTTGGACAAA CTGCCATCCT 11700 TCAGAATCAT CTGCAAATAC TGTACTGGTC CCTAGCAAAC CAAAGAAAAA TACTGTCAGT 11760 CCAACTTGCA TAGTTTTTTT CAAAATTTTC ATCTATATAC CCTCCAATAT TAAATCCACT 11820 CACCAGATGA GGCGAAATTA TAAACTTTAC CATCGATAGT TTGGCTACCT GTAACCATTG 11880

985

### CTCCAGG

11887

# (2) INFORMATION FOR SEQ ID NO: 147:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 11340 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 147:

CCGGTATGTT	CTGGAATACT	ACCAATCTAA	GCTGGCTGTG	CCCTACAGTT	TTACAACCCT	60
GTACGAATAC	CTTAAGGAAT	ATGACCGATT	TTTCAGCTGG	GTTTTGGAGT	CTGGTATTTC	120
AAACGCTGAT	AAAATATCCG	ATATTCCTTT	ATCAGTTTTG	<b>GAAAATAT</b> GŤ	CTAAGAAAGA	180
CATGGAATCC	TTTATCCTTT	ATCTACGTGA	ACGTCCCTTG	CTGAATGCTA	ATACAACAAA	240
ACAAGGTGTT	TCACAGACAA	CTATCAATCG	AACCTTATCA	GCACTTTCTA	GTCTTTACAA	300
GTATCTAACC	GAGGAGGTTG	AAAACGATCA	GGGGGAACCT	TATTTCTATC	GTAATGTAAT	360
GAAAAAGTT	TCCACCAAGA	AAAAGAAAGA	AACCCTTGCT	GCCAGAGCTG	AAAATATCAA	420
GCAAAAACTC	TTTCTAGGTG	ATGAAACAGA	AGGTTTTCTA	ACTTATATCG	ATCAAGAGCA	480
CCCACAACAG	CTTTCAAATC	GAGCTCTCTC	ATCATTCAAC	AAAAATAAAG	AACGAGATTT	540
AGCCATTATT	GCCCTTCTCT	TGGCATCTGG	TGTTCGCTTA	TCTGAAGCTG	TTAATCTAGA	600
TCTAAGAGAT	CTCAATCTAA	AAATGATGGT	TATTGATGTT	ACTCGAAAAG	GTTGCAAACG	660
TGACTCAGTC	AATGTCGCTG	CTTTTGCTAA	ACCTTATTTA	GAGAATTATC	TGGCCATTCG	720
GAATCAACGC	TATAAAACGG	AAAAAACAGA	TACAGCCCTT	TTTTTAACTC	TCTACAGAGG	780
TGTTCCTAAT	CGTATCGATG	CTTCTAGCGT	TGAGAAAATG	GTTGCTAAAT	ACTCAGAGGA	840
TTTTAAAGTG	CGTGTAACAC	CCCATAAACT	GCGCCATACA	CTAGCAACTA	GGCTCTATGA	900
TGCGACTAAA	TCACAAGTTT	TAGTCAGTCA	CCAACTAGGA	CATGCTAGCA	CACAAGTCAC	960
TGACCTCTAT	ACCCATATTG	TTAGTGATGA	ACAAAAGAAT	GCTCTGGATA	GTTTATGATT	1020
TTACGTATTT	TAAATTATGT	AAATAAATAT	CAAAAAAAGA	AGTTGGCCAA	CTTCTTTTTG	1080
ATTTATCCAA	CTACCGCTTC	AGCGATTTCT	TCACGGCTAA	TACCAGCGAA	GTAGCGTGTG	1140
ATATCAATGG	TTTTTAGCGC	CTTAAGAACA	TCTTCGCGTT	CGTATTTCAC	CCCACGAAGG	1200
ACATCTTCTA	CTGCAGCAAC	GTCTTCAATA	CCAAAGAAGT	CACCATAAAT	CTTGATGTCT	1260
TGGATTTTTG	ATTCAGTAAC	GTTAGCAAAG	ACTTCAACCT	TACCACTAGT	GAÄTTTGATT	1320

			986			
CCACGACGGA	CGTTAAATTC	AGGTGATTTA	CCATAGTTCC	AGTCCCAAGT	TCCAAACTTA	1380
GTATCCTTGA	TGCGATTGAT	TTCGGCCAAT	TCTTCTTCTG	AAAAGACGTA	TTCAGTCATC	1440
TCTGGGTACT	CTTTTTTCAT	GTATTCCAAG	AGTAAATCAC	GGAATTTTTC	GACTGTGATT	1500
TTTTTTGGTA	ATTCATTGAT	AATATTGGTT	ACACGGGCAC	GGACGGATTT	CACACCTTTT	1560
GATTCAAATT	TATCTTTTGA	AACCTTAAGG	GCATTTGCGA	GGACTGACAA	ATCAACGTCA	1620
AAGAGCAAGC	AACCGTGGTG	CATGATACGG	CCGTTGATAT	AGGCTTGGGC	ATTGCCACAG	1680
AACTTCTTAC	CATCAATCTC	AAGGTCATTA	CGACCTGTGA	ACTCAGCTTT	AACCCCAAGT	1740
TGAGCCAGGG	TATTGATAAC	CGGAGTTGAG	AAGCTCTTGA	AGTCAAATGC	CTTATTTTCA	1800
TCTTCTTTGG	AGATGATCGT	GTAGTTGAGG	ТТАТТТАААТ	CGTGGTAAAC	AGCTCCACCA	1860
CCACTAATAC	GGCGAACTAC	CTCAATACCA	TTTTCGCGAA	CATAATCACG	GTTGATTTCT	1920
TCGATAGTGT	TCTGGTGACG	ACCAACAATG	ATAGATGGCT	TGTTAATCCA	AAGTAGGAAG	1980
ATTTGATCCT	CATCCAAAAG	GTGTTTAAAG	GCGTATTCTT	CCAAGGCAAT	ATTAAAAGCA	2040
GTGTCATTTG	AATGATTGAT	AATGTATTTC	ATGATATCCC	$TTTACTTTA^{^{\!$	ATGATAGAAA	2100
CTGGAAATAA	CCTTCCAGTC	TAATCTATCT	TCGTTTTATT	TTTTCTTAGG	TGAATGGATG	2160
GCCATTCCTA	GAACATCTGC	AAACGCTTCG	TACATCACTT	CAGAGTAAGT	TGGGTGCCCG	2220
TGGATGGTCT	TCAGCATTTC	CTCAACAGTG	ATTTCCATTT	CGATGATGCT	TGATGCTTCG	2280
ТТТАТТААТТ	CTGCGGCTGC	AGGACCAATA	ATGTGTACAC	CAAGGATTTC	TCCGTATTTC	2340
TTATCAGCGA	TAACTTTTAC	GAAACCTTGA	GCTGCGTCAG	ATGCAATAGC	ACGACCGTTA	2400
GCAGCAAAGT	TAAACTTACC	GATGGCAACA	TCGTATTTCT	CACGGGCTTG	TTCTTCTGTC	2460
AAACCTACTG	CTGCTACTTC	AGGGAGAGTG	TAGATGGCTG	CAGGAGTCAA	ATTCAATTTG	2520
GCAACTGCAT	GATTTCCTTT	AAGGGCATTT	TCAGCGGAAA	CTTCACCCAT	GCGGAAAGCT	2580
GCGTGAGCCA	ACATCTTAGT	ACCGTTGATG	TCACCTGGTG	CATAAATGCC	TGGAACTGAA	2640
GTTTCCATGT	ATTCGTTGAC	CTTGATACAA	CCACGATCCA	ATTCAAACTC	AACCTCTCCA	2700
ATACCTTCAA	GGTCTGGCAT	ACGACCAATT	GAAAGAAGAG	CTTTGCTTGC	GATGATATCG	2760
TCTTTTCCTT	CAACCTTGAT	ACGAAGTTGA	CCATTTTCCT	CAATGATTTC	TTGCAGTTTA	2820
GTACCAGTCA	AGATGGTCAT	TCCTTTACGC	TCAAGAATCA	AGCGAAGGTT	CTTAGAAACT	2880
TCCACATCCA	TAGCTGGAAC	TATACGGTCC	ATCATTTCGA	TAACAGTCAC	TTTTGAACCA	2940
AATGTCATGA	AGGCCTGACC	GAGTTCGATA	CCGACAACTC	CACCACCGAT	GATAACAAGG	3000
CTTTCTGGCA	CTTCGTTCAT	TTCAAGAATG	TCATCACTAG	TCATGACAAG	TGGAGATTCC	3060
ATACCAGGGA	CGTTGATCTT	GTTGACTTTT	GAACCACCAG	CAAGAATGAT	TTTCTTGGTT	3120

TCAAGCAATT	CAGAACCATT	TACCAAGACG	TTCTTGTCTT	TAGTGATTGT	ACCAATTCCT	3180
TTATGAACAG	TAACTCCGTA	GCTACGAAGA	AGTCCTGCAA	CACCACCAAC	AAGAGTATTA	3240
ACAACTTTAG	ATTTAGTTTC	TAAAAGTTTT	TCCATATCAA	CAGTGAAGTT	AGGATTTTCA	3300
ATCACGATAC	CACGATTTGC	AGCATGACCG	ATATTTTCAA	TAATTTCAGC	GTTATGAAGG	3360
TAGGTCTTGG	TTGGAATACA	TCCACGGTTT	AAGCAGGTTC	CACCAAGTTC	AGATTTCTCA	3420
ACAAGGGCAA	CCTTACCGCC	GAATTGGGCA	GCTTTAATGG	CTGCAACATA	ACCAGCAGGA	3480
CCTCCACCAA	TCACAACGAT	ATCAAAAGCA	TCATCGCTCT	TACCATCATC	GTTTGAGGTA	3540
CTTGCTACAG	GTACAGGGCT	AGCTTCTGGC	GATGCTGCTC	CAGCTGTTGG	GATGTTTTCC	3600
CTTTCTTCAC	CAAGGTAACC	GATAACTTCC	GTTACAGGGA	CAGTTTCACC	ATCTCCTTTG	3660
AGAATGGCAA	TCAAGTACCC	ATCTTCTTCG	GCTTCCAATT	CCATGCTGAC	TTTATCAGTC	3720
ATGATTTCCA	AAAGGATTTC	TCCTTCTTTT	ACAAATTCTC	CGACTTTTTT	ATTCCATTGG	3780
ACGATTTGTC	CTTCTGTCAT	ATCCACGCCG	GCTTTTGGCA	TAATTACTTC	TAAGGCCATG	3840
TCTTCCTTCC	TTTATCTATA	TCTTAAAAAT	GAATACTCTT	GCTCTTAAAT	TAACATTGAG	3900
ATTGGCGTTT	CAATCAACTC	TTTCAAGTCC	TTCATAAACT	TAGCACCAGC	CATACCATCT	3960
ACGACACGGT	GGTCAATGGT	TAATCCTAAA	CTCATGATTG	GGCGAATCAC	AATTTCACCA	4020
TTGACGACAA	CTGGCTTCTC	GATTGTCGAA	CTGACACCAA	GGATAGCTGA	GTTGGGTTGG	4080
TTAATAATCG	GACCAAAGGA	CTGAACACCA	AACATTCCCA	AATTACTGAT	TGTGAATGTT	4140
ĠAATTTTGTA	ACTCACTTGG	AGCCAATTTA	CCATCCAAGG	TACGGCCAAT	AACATCCTTA	4200
AAGGCTACAA	CCAGTTCTGA	AAGACTCATC	TTCTCAGCAT	TGTAAACAAC	AGGTGTCATC	4260
AATCCATTAT	CCATCCCAAC	TGCCATGGCA	AGATTGACAT	AGTTGTGAGT	GATAATAGTC	4320
TTGCCATCTT	CTGTCAATGA	AGCGTTGATG	TATGGGTGTT	TCATAAGAGT	CTTAACAACT	4380
GCAAGCGAAA	GAAGGTCTGT	TACAGTAGTC	TTCTTCCCAG	TTGCTTCCAT	GATTGGCTCA	4440
AGAACCTTCT	TACGAAGAGC	CAACATTTCA	GTCATATCAA	CTTCATAGTT	GAGGGTGAAG	4500
GTTGGCGCAG	TCAAGTAAGA	TTCAACCATG	CGTTGGGCAA	TAACCTTACG	CATTGGTGTC	4560
ATTGGAATAC	GCTCGATTTT	ACCATATGGT	GTTACGTTAT	CAGGGACTTC	TTCCACTTTT	4620
TCAATCTGAG	CAGGAGATTT	GATGCTATCG	TTTTCGATAT	TTTCAGGAAG	CAGGGCCAAA	4680
ACATCCTTCT	TCATGATTTT	ACCACGATGA	CCGGTTCCTT	GGATTTCCTG	CCAAGCAATG	4740
TTATGTTCGA	GGGCAATTCG	TTTTGCAAGT	GGCGAAATGC	GAACCACGTT	TGTGTCTTTA	4800
TAAGTTTCCA	CGTCTTCTTT	GTGGACACGA	CCGTTTGCAC	CTGAGCCAGA	AACGTCGTAG	4860

			988			
AGGTTTATCC	СТАААТСАТС	CGCTAACTTT	CTAGCTGCAG	GAGTCGCTCT	TAGCTTGTCA	4920
TCAGCCATGA	CCTCTCCAAT	TCTATTTATG	ATACAAAGGG	CGTCAAAAGC	GACTGAAAAA	4980
TAGGAAATCG	ACGATGGCTT	CGATGAAGCC	AAGGAGATTT	ATCTTTTTTC	CGATCTTTTA	5040
GCCCCTGCTC	TAATCTAAGA	TATTAATGAC	GAAGAGCTCT	GCACCTAAAA	GATACAAAGT	5100
PTCTCGTCAG	CTTTATTTA	TTTACATAAC	TTATCTTATG	TAACCCTATT	CTTTGTTATA	5160
AGTTTTTCGG	ATTGCATCTT	TGATACTTTC	AACTGTTGGA	ATCATTGCAT	TTTCTAGGTT	5220
PTGTGCATAA	GGCATCGGCA	CATCTTCTCC	TGCACAACGG	CGAATTGGTG	CATCTAGATA	5280
GTCAAATGCT	TCTGATTCTG	AAATAATAGC	TGAAATTTCA	CCGATATAGC	CACTTGTTTT	5340
GTGGGCATCG	TTGACCAGAA	CAACCTTACC	AGTCTTCTTC	ACTGAGTTTA	TGATGATATC	5400
CTTATCAAGC	GGAACAAGGG	TACGTGGGTC	AACAATTTCA	ACTGAAATTC	CTTCTTCTGC	5460
PAATTCTTCA	GCAGCTTGAA	CCACACGGCG	AAGCATTTTT	CCATAAGTAA	CAACTGTTAC	5520
ATCCGTTCCT	TGGCGTTTGA	TTTCACCAAC	CCCAAGTGGA	ATTGTGTAGT	CTGGATCAAC	5580
rggcacttcc	CCTTTTTGGT	TAAATTCTGA	CTTGTACTCA	AGTATAATAA	CTGGGTTGTT	5640
ATCACGGATA	GAAGACTTAA	GCAGGCCTTT	CATGTCCGCA	GGTGTTCCAG	GTGCCACAAC	5700
CTTAAGTCCT	GGAATGTGAG	TAAACCAAGA	CTCTAGAGAT	TGTGAGTGCT	GGGCGGCAGA	5760
GCCAACTCCG	TTACCAGCTG	CACAACGAAC	AGTCATTGGA	ACCTGACCTT	TACCACCAAA	5820
CATGTAACGT	GTTTTAGCAG	CTTGGTTGAC	GATATTGTCC	ATGGCAATAA	CAGAGAAGTC	5880
CATGAAGGTC	ATATCGACGA	TTGGACGAAG	TCCTGTCATG	GCTGCTCCTG	CTGCTGCTCC	5940
AGAGATGGCA	GCTTCAGAAA	TCGGACAGTC	ACGGACACGT	TCTGGACCAA	ATTCTTCAAG	6000
CATTCCAACA	GAAGTACCGA	AGTCTCCTCC	GAAGACACCG	ACGTCTTCTC	CCATCAAGAA	6060
CACATTTTCA	TCGCGACGCA	TTTCCTCAGA	CATAGCAAGG	ATAATGGTGT	CACGGAAGGA	6120
CATTGTTTTT	GTTTCCATTT	TATCTCTTTC	TCCTTAGTCT	GCGTAAATAT	CTTCAAAGGC	6180
<b>FGATTCAAGC</b>	GGTGGGAATG	GGCTTTCCTC	TGCAAATTTA	ACAGAAGCTT	CTACTGCTTC	6240
TTTACTTGC	GCTTGGATTT	CTTCCAATTC	TTCGGCACTT	GCAATGTTAT	TTTCAATAAG	6300
TAATTGCGG	AGGTTTTCGA	TTGGATCTTT	TTGTTTCCAC	AATTCCACTT	CTTCACGCGT	6360
ACGATATTTA	CCAGGGTCAG	ATGATGAGTG	ACCGAGCCAG	CGATAAGTTA	CACTTTCAAT	6420
CAAGACTGGA	CCATTGCCAC	TGCGAACATG	GTCCACAGCT	TTCTGAAATC	CTTCATAGAC	6480
ATCGATGACA	TTGTTACCGT	CTTCGATGAA	CATTCCAGGA	ATTCCATAAG	CGGCGCTACG	6540
TTGATGGATA	TGTTCTATAT	TGGTCATTTT	CTTGATATCC	GCAGAGATAC	CGTAACCGTT	6600
TTAATGCAA	TAGAAAATGA	CTGGCAGGTT	CCAGATAGAA	GCCATGTTCA	CTGCTTCGTG	6660

GAAAACACCT	TCATTGGTCG	CACCATCTCC	AAAGAAGCAG	ACAACGATTT	TACCGGTATT	6720
TTGCATTTGC	TGACTGAGGG	CTGCACCGAC	AGCGATCCCC	ATACCACCAC	CTACGATACC	6780
ATTGGCACCA	AGGTTCCCAG	CATCAAGGTC	AGCGATATGC	ATAGATCCAC	CTTTCCCTTT	6840
ACAGGTTCCA	GTGTATTTAC	CAAGGATTTC	AGCCATCATT	CCGTTGAGGT	CAATCCCTTT	6900
AGCAATAGCT	TGCCCGTGTC	CACGGTGGTT	TGAGGTAATC	AGATCATCTG	GATTGAGAGC	6960
TAACATAGCC	CCCACGTTAG	CTGCCTCTTC	ACCAACAGAA	AAGTGCGTCA	TTCCTGGCAC	7020
TTTCCCTTTC	TTTACTAATT	GTGCAATTTT	TAAGTCCATG	CGACGGATTT	CTTCCATCTT	7080
ACGGAACATT	TCTAGCAAAA	GATTTTTATC	TAAAGTTGAC	ATCTTCTTGC	CTTTCTAACT	7140
TTCTTCTTAC	CTTACTATTT	TACCGCTTTT	GGCAAATACT	GTCAAAGTTT	TTCTAAAAGA	7200
AATTTCACAA	AATAAAAAAG	AAAACCCCGT	GAAAACAAGG	GATTTTCTTG	TCAAGAATAT	7260
TTTTTCACAA	ACTTTTTAGC	ATTTGGATTT	TGCTAAAGAT	TCAAATCTCT	TCATAATCAC	7320
AGTTAAACGC	CAACGGTAGA	GCGCCCCGCT	CACAATCAAA	CTAATAATCA	AGCCGATCCA	- 7380
GTAAGAATAA	GCTCCAAAAT	CTGTTAGGGA	ATCAAATAGC	GTAnCACAGG	GATTGCTACG	7440
CCCCAATAAC	CAAGCAAACC	AAGGTAAAAA	GGAATAACTG	TATCCTTATA	CCCCCGCAAA	7500
ATTCCCTGAA	GCGGCGCCGC	AAAGGTATCT	GCTAACTGGA	AGAAAAGACT	ATAAGTTAAA	7560
AAACGCACTG	TCAAATCGAT	AAATTTTGGG	TCGTTACCAT	AAAGACTGGC	CACATTTCCC	7620
CTAAAAATGT	AAAGGAAGGT	TAAGGTGAAG	GCCGCAAAAA	TGAGGGCAGT	CCATCTTCCT	7680
AGACCAATAT	AGGTTTTCGC	ATCATCAAAT	CGCTTGGCTC	CCACTTCATA	GGAAACGACA	7740
ATAGCCATAG	CCGATGAGAT	ACTCATAGGA	AAGGCGTACA	TAAGACTTGA	AAAGTTCATA	7800
GCTGACTGGT	GACTAGCTAT	AATCAAGGGC	GAAAACTTAG	CCATAATCAA	GCCAACCACT	7860
GAAAAGATAG	CCACTTCCGC	GAAGACAGTT	CCCCCAATAG	GCAGACCTAA	ACGAACTCCT	7920
PCCTTAATTT	TATCCATATT	AAGTGGAATT	CGTTTCTCAA	GGTGTAAGGC	TTTGAGCTTC	7980
rcctgtttaa -	ATAAAACCAG	AACAGAAATC	CCAAGCAAGA	CCCAGTAGGC	CAAGGATGTT	8040
CCTAAACCAG	CACCAGCCCC	TCCCAGTTCT	GGAACACCAA	AGGCACCGTA	AATCAAGAGA	8100
PAGTTAAATC	CGCTATTGAG	AGGGAGTAAC	AAAAGCATGA	GGTACATGGA	CAGTTTGGTC	8160
AAGCCCAGCG	AATCCAGCAA	GGAACGAATG	ACGCTAAAGA	GCAACAAGGG	GATAATCCCG	8220
ATAGATAAAA	ACCAAAGATA	GCGAACCGCT	ACTGCCGCTA	CTGCTGCTTC	TAACCCAATA	8280
IGATTCAAGA	TTATTGGTGC	CAAGAAAAGT	ACCATCCCCA	GCAAGACCAC	AGATAGGCCC	8340
AACCCCAAAM	ጉሙ የሚል የተመሰ	CTAAAAATCA	CACCCAACOO		CCCTCCACCA	9400

			990			
AGATGGTGAC	CAATGATAGG	CACCAAGGCT	GACACAATCC	CTGTTAGAAA	TGTAAAGAAA	846
GGATTCCAGA	TACTGGTTGC	CATAGATACA	CCAGCCAAGT	CCATAGTGTT	GTATTGACCT	8520
GTCATTGCAG	TATCAACAAA	AGAGGCAGAA	TAATTGGCAA	ATTGGTAGAT	CAGGATTGGG	8580
AAGAAAATTT	AATAAAATT	TACTAACTTC	TCTCGTAAAC	ACTTTGTCTT	ATACATACTT	8640
СТСТТТСТАТ	TCTGATTTAT	СТАААССААА	GAGTTTCAGA	CCATAGTTTT	TCAAACTTAG	8700
CGGAGGTTTA	TTAGATTTTG	AAGTAGTATG	CCAACACGCA	CATGTACGAC	AATAATAGCT	8760
тстаастааа	CCTCCGTTAT	CATATTGAAC	CGCATGGTCA	GCTTTTTCTT	TAGTTTCATA	8820
TTGAATTTTG	GAACGATTAG	CTGCGGGACA	GTAAATTCCA	CTATTAGATT	TCGCTTGTCT	888
CTCCCTACGT	TTTCGAAAAT	AATTCATATT	СТААСТССТА	TCAAGCTTGA	TAGACGATTT	8940
GTCCCTTACA	GATGGTATAT	TTAACCTGCC	CTTTTAAGGT	TTCACCGATG	AATGGTGAAT	9000
TAGCTGCTTT	GGAAGCAAAA	TGGGAGTCCA	CAAAGCGGTC	AGCCTTGGCA	TCAAAAATAG	9060
TGATATCTGC	TGGACCATTC	TCAGCCAAGT	AACCTGCTTC	AAAGTTGTAA	AGCTTGGCTG	9120
CGTTGTATGT	CATTTTTCA	AGTAATTCCA	TCAAGCTCAA	CTCACCAGCT	ТСТАСТАААТ	9180
AGGTCAAGCT	GAGAGACAGG	GATGTTTCTA	AGCCAGTCAT	ACCAGATGGC	GCTTTGGTAA	9240
TATCCTCAAC	ATTTTTTCA	TCTACATGAT	GAGGCGCGTG	GTCAGTCGCA	ATAACTGTGA	9300
TGACACCTGA	TTTGAGACCT	TCGATAACGG	CACGACGGTC	TGATTCCAAA	CGAAGCGGTG	9360
GATTCATCTT	AGCATTGCTA	CCTTGTGTTA	AAAGAAGTGC	TTCTGTCTTA	GAGAAATGCT	9420
GTGGCGCTAC	TTCTGCTGTG	ACTTCTGCAC	CTAACCCCTG	AGCAAACTCC	ACTACTTTAA	9480
CACTTTCTTC	CTTAGACAAA	TGCTGGATGT	GAACATGGGC	TTTAGTTGCA	TAGGCAATCA	9540
TGACATCACG	CGCCATCATA	GCGTACTCAG	CCACCCCAGT	AGCACCGCAG	ATATGGAAAT	9600
GTTCTCTAGC	AATATTTTCA	TTAAAGCCAA	GAACACCGTT	CAAACCTGGA	TCTTCCTCAT	9660
GAAGGCTGAT	AAAGGTATTG	AGTTTTTTGG	CTTCCTCCAT	GGCTTCCTTG	ACAATCTTAC	9720
TGCTCTCAAG	CGGAATACCG	TCATCAGAGA	AACCAACCGC	ACCAGCTTCT	AAGAGTGCCT	9780
TAAAGTCAGT	CAAGTTTTTA	CCATTAAAGT	TTTTAGTAAT	GGTCGCAACT	GTCTTGACAT	9840
TAATCTTCTC	TTTGGCAGCT	GACTGGAGAA	CTGCTTGCAA	AGTCTCCACG	TCTGAAATGG	9900
TTGGACTGGT	ATTAGCCATC	ATGACGACAG	TAGTAAAACC	ACCTGCAGCG	GCTGCTAGGG	9960
CACCAGTATG	AATGTCTTCT	TTATGTGTTT	GACCAGGTTC	ACGGAAATGA	ACATGAATAT	10020
CGACCAAGCC	AGGAGCAACC	ACAAGACCAG	TAGCATCAAT	CGTTTCTGCT	CCTTCTTCCG	10080
TGATCTCAGA	CGCAATTTTG	ATAATTTTCC	CATCTTGAAC	TAAGACATCA	CAAACTTGAT	10140
CCAAACCAGA	CTTGGGATCC	ATTACACGAC	CATTTTTGAT	TAGTAGCATC	TGCTTTCTCC	10200

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ТТТАТТСАТА	GAAATCAACT	TGGGTATCCA	ACAATTTATC	CCCATCATAA	ACAAACTTGG	10260
CTGAAAAGAA	GGGTTTATCC	TCTAAAAGCC	ACTCAACAAA	GGTGTGGTCA	CCTTCCCAAG	10320
TCGGCTTGCT	CAAAACCTCA	TCATAGGGAA	CCCATTCTAG	CGTCCCCTCA	TTGCAGTCAA	10380
TCAAGTCGCC	CTCAAACTCC	GTCACCTTAA	AAACATAGGT	GTACCAGTCT	AAATCTGGTG	10440
TAAATTCAGG	AAAAGTGATG	ACACCTTTTA	GAACTGGCTT	GGCTTTGAGC	CCTGTTTCTT	10500
CAAGGATTTC	ACGCGCCGCG	CATTCCTGGG	GCGTCTCTCC	TCTCTCTAGC	TTACCACCCA	10560
CACCAATCCA	TTTCCCTTCA	TGGACATCAT	TGGGTTTCTT	ATTACGATGG	AGCATGAGCA	10620
GTTCTTTCCC	ATTATCAATG	TAGCAAATCG	TCGCTAACTG	AGGCATATTT	TCTCCTTATC	10680
TAAGCCAATC	GATTGGCTCT	TGTCCTGTCT	CTTTTAAGAA	TGCATTGGCC	TTGGAAAAGG	10740
GCTTGGAACC	CCAAAATCCT	CTATAAACCG	ACAAAGGACT	TGGATGGGCT	GATTCGATAA	10800
TCAAGTGATG	AGGATTGGTA	ACTÀATGCCT	TCTTCTTACG	TGCATAAGCT	CCCCAGAGTA	10860
CAAAAACGAC	TGGTCTATCT	AGATGATTGA	CCACCTGAAT	CACAGCATCA	GTAAAAGGCT	10920
CCCAGATTTG	ACCAGCATGA	CCATTGGCCT	GTCCAGCAGG	AACAGTCAAA	CAAGCATTAA	10980
GAAGCAAGAC	TCCTTGCTCA	GCCCAAGCTG	TCAAATCATG	AGATTTCTTA	ACTCCGATAT	11040
CATCTGACAA	TTCTTTCAAG	ATATTTTGCA	AGGATGGTGG	AGCTGGGATA	GAGTCAGGTA	11100
CAGAAAAACT	CAAGCCCTGC	GCTTGACCTG	GTCCGTGATA	GGGGTCTTGC	CCTAGAATTA	11160
CCACCTTAAC	TTCTTCAAGC	AGTGTTGTCA	AGAGAGCCTG	AAAAACCTTT	TCCTTGGGTG	11220
GATAAATAAT	CCCCTGAGAA	TAGACCTGCT	CCATAAACTG	ATTGATTTTC	CCGAAATAAC	11280
CCTCAGGTAA	TTGCGCCTTA	ATCAAAGCAT	GCCAAGACGA	GTGTTCCATA	GCCGACTCGG	11340

# (2) INFORMATION FOR SEQ ID NO: 148:

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 12127 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double
   (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 148:

AAAAAATAGA	CTTGTTAGAC	TATAAATGTA	GTAAGCCTAC	ACAAGAAAAA	TACATAGAGA	. 60
TAAAGGTGAT	TATTATGAAA	TTCAAAAAAA	TGCTTACTCT	TGCAGCCATT	GGCTTATCAG	120
GATTTGGGCT	TGTTGCCTGT	GGCAATCAGT	CAGCTGCTTC	CAAACAGTCA	GCTTCAGGAA	180
CGATTGAGGT	GATTTCACGA	GAAAATGGCT	CTGGGACACG	GGGTGCCTTC	ACAGAAATCA	240

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CAGGGATTCT	CAAAAAAGAC	GGTGATAAAA	AAATTGACAA	CACTGCCAAA	ACAGCTGTGA	30
TTCAAAATAG	TACAGAAGGT	GTTCTCTCAG	CAGTTCAAGG	GAATGCTAAT	GCTATCGGCT	36
ACATCTCCTT	GGGATCTTTA	ACGAAATCTG	TCAAGGCTTT	AGAGATTGAT	GGTGTCAAGG	42
CTAGTCGAGA	CACAGTTTTA	GATGGTGAAT	ACCCTCTTCA	ACGTCCCTTC	AACATTGTTT	486
GGTCTTCTAA	TCTTTCCAAG	CTAGGTCAAG	ATTTTATCAG	CTTTATCCAC	TCCAAACAAG	546
GTCAACAAGT	GGTCACAGAT	AATAAATTA	TTGAAGCTAA	AACCGAAACC	ACGGAATATA	60
CAAGCCAACA	CTTATCAGGC	AAGTTGTCTG	TTGTAGGTTC	CACTTCAGTA	TCTTCTTTAA	660
TGGAAAAATT	AGCAGAAGCT	TATAAAAAAG	AAAATCCAGA	AGTTACGATT	GATATTACCT	72
CTAATGGGTC	TTCAGCAGGT	ATTACCGCTG	TTAAGGAGAA	AACCGCTGAT	ATTGGTATGG	78
TTTCTAGGGA	ATTAACTCCT	GAAGAAGGTA	AGAGTCTCAC	CCATGATGCT	ATTGCTTTAG	84
ACGGTATTGC	TGTTGTGGTC	AATAATGACA	ATAAGGCAAG	CCAAGTCAGT	ATGGCTGAAC	900
TTGCAGACGT	TTTTAGTGGC	AAATTAACCA	CCTGGGACAA	GATTAAATAA	AATGTTTGCT	960
CCATAAATCT	CTAAAGAGAT	GCAGACGTTT	CATCGTACAA	TAAGATAAAG	AAGGCAAGTA	1020
GGGAGGTGTC	GTATCTCCCT	TACTTTCTTC	ACTAGAAAGG	ACAAGATGTG	ACAAAACAAG	1080
CCTTCAAAGA	AGCAGTTTTT	AGGGCAATTT	TTTTCATGAG	TGCAACAGTA	GCTGTTGTAG	1140
CTATTTTGCT	AATCTGTTTC	TTTATTTTA	GTAATGGCTT	ACCTTTCATA	GCTAACTACG	1200
GCTTTGCCCG	TTTTTTATTA	GGCAGTGATT	GGTCGCCAAC	GAACATTCCG	GCAAGCTATG	1260
GTATTTTACC	AATGATCGTT	GGTTCCTTAT	TAATTACCTT	AGGAGCGATT	GTGATTGGGG	1320
TGCCAACAGG	CATCTTGACA	TCGGTGTTTA	TGGTTTATTA	TTGTCCAAAG	CCCGTCTATG	1380
GCTTCTTAAA	ATCAGCTATC	AACTTGATGG	CAGCCATTCC	ATCTATTGTT	TATGGTTTTT	1440
TCGGCCTACA	ATTATTGGTG	CCTTGGATTA	GAAGCTTTTT	AGGAAATGGC	ATGAGTGTCC	1500
PAACCGCTTC	GTTACTATTA	GGAATAATGA	TTTTGCCAAC	CATTATCAGT	TTGTCAGAAT	1560
CTGCTATCCG	AACAGTTCCC	AAAACGTATT	ATTCTGGTAG	CTTGGCTCTA	GGAGCTAGTC	1620
ATGAACGGAG	TATTTTTAGT	GTCATCTTGC	CAGCTGCGAG	ATCTGGTATT	TTATCAGCAG	1680
<b>ITATTTTAGG</b>	AATCGGTCGC	GCAGTAGGTG	AAACCATGGC	AGTTATTTTG	GTGGCAGGCA	1740
ACCAGCCGAT	TATTCCAAGT	GGACTCTTTT	CAGGAACCAG	AACCTTAACA	ACCAATATTG	1800
PTCTGGAAAT	GGCTTACGCA	TCAGGTCAGC	ATAGGGAAGC	CCTTATTGCA	ACCTCAGCAG	1860
PTCTCTTTTT	CCTTATTCTC	TTGATTAATG	CCTACTTTGC	CTACTTGAAA	GGAAAATCAT	1920
CTTATGAGTA	AATACCTGCT	AAAACTTCTC	GTTTATTGTT	TTTCAGCTTT	AACCTTTGGC	1980
PCTCTCTTTT	TAATCATTGG	TTTTATCCTC	ATCAAAGGCT	TACCTCATCT	AAGTCTATCC	2040

CTCTTTTCTT	GGACTTATAC	TTCTGAGAAC	ATTTCCCTTA	TGCCAGCGAT	TATTTCCACC	2100
GTTATTCTGG	TCTTTGGTGC	TCTTCTTTTA	GCCTTGCCCA	TAGGGATTTT	TGCTGGTTTT	2160
TATCTTGTGG	AATATACAAA	AAAAGATTCC	CTTTGTGTTA	AAATCATGCG	ATTGGCCTCA	2220
GATACCTTAT	CTGGGATTCC	TTCCATTGTT	TTTGGTCTGT	TTGGCATGCT	CTTCTTTGTA	2280
GTCTTCTTAG	GTTTTCAATA	CTCTCTGTTA	TCAGGAATCT	TAACCTCAGT	TATCATGGTG	2340
TTGCCAGTCA	TTATTCGCTC	AACAGAAGAA	GCCCTTTTAT	CTGTTAGTGA	TAGCATGCGT	2400
CAAGCAAGTT	ATGGACTTGG	GGCAGGTAAG	TTACGGACTG	TTTTTAGAAT	TGTTCTACCA	2460
GTTGCCATGC	CAGGTATTTT	AGCTGGAGTG	ATACTAGCTA	TTGGCCGTAT	CGTTGGTGAA	2520
ACAGCTGCCC	TCATGTATAC	ATTAGGTACC	TCTACCAATA	CGCCAAGTAG	TCTCATGTCT	2580
TCAGGCCGTT	CTCTAGCCCT	ACATATGTAT	ATGCTGTCAA	GTGAGGGGCT	ACATGTCAAT	2640
GAAGCCTATG	CTACCGGCGT	GATTTTGATT	ATTACTGTTT	TAATGATAAA	TACTCTATCA	2700
AGCTTATTAT	CTCGAAAACT	TGTGAAAGGA	GCTTCCTAGT	ATGGGAACAT	TTTCAGTCAG	2760
ACACCTAGAC	TTATTTTACG	GGGATTTTCA	AGCCTTAAAA	AATATTTCGA	TTCAATTACC	2820
AGAAAGACAG	ATTACTGCCT	TGATAGGCCC	ATCTGGTTGT	GGCAAATCAA	СТТТТСТААА	2880
AACCCTTAAC	CGGATGAACG	ATTTGGTTCC	TTCTTGCCAT	ATTGAAGGCC	AAGTCCTCTT	2940
AGATGAGCAA	GATATTTATA	GTAGCAAATT	СААССТТААТ	CAGCTACGTA	AGCGTGTAGG	3000
GATGGTTTTT	CAACAGCCTA	ATCCCTTTGC	CATGTCTATC	TATGATAACG	TGGCTTATGG	3060
CCCAAGGACA	CATGGTATTC	GAGACAAAAA	ACAATTAGAT	GCCTTAGTGG	AGAAATCTTT	3120
AAAAGGGGCA	GCCATTTGGG	AAGAAGTCAA	AGATGATCTT	AAAAAGAGTG	CCATGTCCTT	3180
ATCTGGCGGT	CAGCAGCAAC	GCCTTTGCAT	TGCGCGAGCT	TTAGCAGTAG	AACCTGATAT	3240
TCTGTTAATG	GATGAGCCGA	CTTCAGCCTT	AGACCCTATC	TCCACTTTAA	AAATTGAAGA	3300
CCTCATTCAG	CAACTAAAAA	AGGATTATAC	GATTATCATT	GTTACCCATA	ACATGCAACA	3360
AGCTTCACGT	ATTTCAGATA	AAACTGCTTT	TTTCTTAACA	GGAGAAATTT	GCGAATTTGG	3420
AGATACCGTT	GACGTGTTTA	CCAATCCAAA	AGATCAGCGC	ACAGAAGACT	ATATTTCAGG	3480
ACGGTTCGGA	TAAGGAAGGA	AAAACCTATG	AGAAATCAAT	TTGACTTAGA	ATTGCATGAA	3540
TTAGAACAAT	CCTTTTTAGG	ACTAGGGCAA	CTTGTCCTTG	AAACAGCTTC	AAAAGCCTTA	3600
CTGGCCTTAG	CCTCCAAAGA	CAAGGAGATG	GCAGAGCTAA	TTATCAATAA	GGATCATGCT	3660
ATCAACCAAG	GTCAAAGCGC	TATCGAATTG	ACCTGTGCCC	GTTTGTTGGC	CTTGCAGCAG	3720
CCACAAGTGT	CTGACCTTCG	ATTTGTGATT	AGCATCATGT	СТТСТТСТТС	AGACCTTGAA	3780

			994			
CGTATGGGAG	ACCATATGGC	AGGCATTGCC	AAAGCTGTTT	TGCAACTAAA	AGAAAATCAA	3840
CTAGCCCCTG	ACGAAGAACA	GTTACACCAA	ATGGGTAAAT	TATCCCTCAG	CATGCTAGCC	3900
GATTTATTGG	TTGCCTTTCC	TTTGCACCAA	GCCTCAAAAG	CTATTAGTAT	TGCTCAAAAA	3960
GATGAACAGA	TTGACCAATA	TTATTATGCC	TTATCAAAGG	AAATCATTGG	ACTTATGAAA	4020
GACCAAGAAA	CCTCAATTCC	CAATGGAACT	CAATACCTTT	ATATCATAGG	GCATCTGGAA	4080
CGCTCGCTGA	TTACATTGCT	AACATTTGTG	AACGCCTAGT	CTACCTAGAA	ACAGGAGAAC	4140
TAGTGGATTT	GAATTAATTC	AACTAATCCT	TAAAAGAGAA	GAGTACGATT	AAGTACTCTT	4200
TTTTATGGTT	GTAAAAAAGT	TCATTTGACC	AATTTAAGCA	GTGTAGATAG	TGAGGAGTTG	4260
тттсааттст	ATCGTGAACG	AGGGAATGCT	GAAAACTTTA	TCAAAGAAAG	GAAAGCAGGA	4320
TTCTTTGGGG	ATAAGACAGA	TAGTTCGACC	ATGATTAAGA	ATGAAGTACG	TATGATGATG	4380
GGCTGTCTGG	CTTATAATCT	CTACCTCTTT	TTAAAGCAGC	TAGCTGGTGA	TGAAGTAAAG	4440
TCCTTGACTA	TCAAGCGTTT	TCGACGTCTC	TTCCTTCATA	TTGCCGGAAA	ATATGTCTCT	4500
ACTGCTAGAC	GACATATTCT	CAAATTCTCA	AGTCTATACG	CCTATTCAAA	ACAGTTTCAA	4560
GCCTTATTTG	ATACAATCTG	CCAGATAAAT	CTGATACTCC	CTGTTCCATA	TAGAGCTAGA	4620
GGGCAGGGGA	AAACATGCCT	AACAGAATAA	GTCACCTTAT	ТТТАААААТС	GAGCATCAAA	4680
CCAAGGGAGG	AGTCTGCCCT	TTTTTAGGAA	AAAATCAAGA	CAAATCTCCT	CAATTATGTC	4740
TCGAACATCA	GAAATTAAGC	AAAATCACCA	GAAGGACAGT	ATTTCAACTA	GCTTTTCTGG	4800
таатттттса	ACTGTGTAGT	TCGTTAGTGC	CAGATATGAA	TAATTTGGGA	TGATAAATCT	4860
TTCTTCCTCA	GGTAGCCTAT	CATAATACTC	TTCAAAAATC	ТТАТСААААА	CACTCTCTTT	4920
CTTTTGGGCG	ATAGTTTCAT	CTTCGTATGT	AGGAGTCCTC	ATCAAGAAAT	ACTTCAATTC	4980
TAGGTATTCC	TTATCCAACT	CTATATAACT	TGGCATCAAC	TTGTAATCTT	CAACCCCCAA	5040
ACGTTCAGCA	ATATATTTTA	ACTTTGTTAG	TATTGGTCTG	GATTCTCCAT	TTTCAATTCT	5100
AATTAATTGA	CGGATACTTA	ATTCAGACTC	ATCACCACAA	AATTCTGAAC	GACTGATT1 r	5160
TTTAGCCAAA	CGTAATCTTT	TAATTTTTC	GCCAAACTCT	CGCAACCTAC	AAGAACTTCC	5220
TGAGTTGTTT	ACCTCTATTA	TAAGCATATA	CTGAATCAAA	CTATCTATCA	GATTTCTTCT	5280
CACTTTAACT	AAAGACTAAG	AGTTTATCCC	TTCGTCTCGG	TTTTTGTGTA	TTTTTCCACC	5340
ATACCCCAGT	AATGCAAGTG	CAAAATCCCC	TAGAATATGA	TAGAATAAGA	GAAAGAACTC	5400
TATCAAGGAG	GAAATCATGG	AAAAACAAAC	CGTCGCCGTC	TTGGGGCCTG	GTTCTTGGGG	5460
AACCGCCCTT	TCACAAGTCT	TAAATGACAA	TGGACACGAG	GTACGTATTT	GGGGAAATCT	5520
TCCCGAGCAA	ATCAATGAAA	TTAATACACA	ССАТАСТААТ	AAGCACTACT	TTAAAGATGT	5580

CGTTCTAG	AC	GAAAATATCA	TTGCCTACAC	CGACTTAGCA	GAAACATTGA	AAGATGTGGA	5640
FGCGATTT	TG	TTTGTTGTCC	CAACAAAAGT	GACACGACTT	GTTGCCCAGC	AAGTTGCACA	5700
AACCTTGG	AC	CATAAGGTTA	TCATCATGCA	CGCATCAAAG	GGATTAGAAC	CTGATAGCCA	5760
PAAACGAT	TΆ	TCAACCATTC	TTGAAGAAGA	AATTCCTGAA	CATCTCCGTA	GTGATATCGT	5820
CGTTGTTT	CA	GGGCCTAGTC	ATGCAGAAGA	GACCATTGTG	CGTGACCTAA	CTTTAATAAC	5880
rgctgctt	СТ	AAAGATTTAC	AAACAGCTCA	ATACGTTCAG	AAGCTATTTA	GTAATCACTA	5940
CTTCCGAC	TT	TATACCAATA	CGGATGTTAT	CGGGGTTGAA	ACTGCTGGTG	CTCTTAAAAA	6000
PATTATTG	CT	GTCGGTGCTG	GAGCTTTACA	TGGTCTTGGA	TTTGGTGATA	ATGCTAAGGC	6060
AGCCATCA	TC	GCTCGAGGTT	TAGCAGAAAT	CACCCGCCTA	GGGGTAGCAC	TCGGGGCCAG	6120
<b>PCCATTGA</b>	.cc	TATAGCGGCT	TATCTGGTGT	GGGAGATTTG	ATCGTAACGG	GAACTTCCAT	6180
CCACTCTC	GT	AACTGGAGAG	CTGGAGATGC	TCTCGGACGA	GGAGAATCCC	TAGCTGATAT	6240
AGAAGCTA	AТ	ATGGGCATGG	TAATCGAAGG	AATTTCAACG	ACTCGAGCAG	CCTATGAACT	6300
AGCCCAAG	AA	CTTGGAGTCT	ATATGCCCAT	TACACAGGCT	ATTTACCAAG	TTATTTATCA	6360
EGGAACCA	ΑТ	ATCAAAGATG	CCATTTATGA	CATCATGAAC	AATGAATTTA	AAGCAGAAAA	6420
rgagtggt	CT	TAACCCTCTA	TAGAAAGGAT	TTTTATGACA	TCAAAAGTTA	GAAAGGCAGT	6480
CATCCCTG	CT	GCTGGACTAG	GAACTCGATT	TTTACCAGCA	ACCAAGGCCC	TTGCCAAAGA	6540
<b>ATGTTGC</b>	CA	ATCGTAGACA	AACCAACTAT	CCAGTTTATC	GTGGAAGAAG	CTCTCAAATC	6600
AGGTATTG.	AA	GATATTCTAG	TTGTCACTGG	ТАААТСАААА	CGTTCTATTG	AGGACCACTT	6660
GATTCAA	AC	TTCGAATTGG	AATATAACCT	CAAAGAAAAA	GGGAAAACAG	ATCTTTTGAA	6720
CTAGTTG	AТ	AAAACAACTG	ACATGCGTCT	GCATTTTATC	CGCCAAACTC	ATCCACGCGG	6780
CTCGGAG	ΑТ	GCTGTTTTGC	AAGCCAAGGC	TTTCGTCGGA	AATGAACCTT	TTGTCGTTAT	6840
CTTGGTG	ΑT	GACTTGATGG	ATATCACAGA	CGAAAAGGCT	GTTCCACTTA	CCAAACAACT	6900
ATGGATG	AC	TACGAGCGTA	CCCACGCGTC	TACTATCGCT	GTCATGCCAG	TCCCTCATGA	6960
GAAGTAT	СТ	GCTTACGGGG	TTATTGCTCC	GCAAGGCGAA	GGAAAAGATG	GTCTTTACAG	7020
GTTGAAA	CC	TTTGTTGAAA	AACCAGCTCC	AGAGGACGCT	CCTAGCGACC	TTGCTATTAT	7080
GGACGCT	AC	CTCCTCACGC	CTGAAATTTT	TGAGATTCTC	GAAAAGCAAG	CTCCAGGTGC	7140
GGAAATG	AA	ATTCAGCTGA	CAGATGCAAT	CGACACCCTC	AATAAAACAC	AACGTGTATT	7200
GCTCGTG	AG	TTCAAAGGGG	CTCGTTACGA	TGTCGGAGAC	AAGTTTGGCT	TCATGAAAAC	7260
TCCATCG	AC	TACGCCCTCA	AACACCCACA	AGTCAAAGAT	GATTTGAAGA	ATTACCTCAT	7320

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CCAACTTGGA	AAAGAATTGA	CTGAGAAGGA	996 ATAACAAAAT	CATTTATATA	AAGATTAGCC	7380
ACACATAAAT	TAAGTAAATT	CTCTACTTGA	ATCTACCTAT	AAAAATAAAT	СТААТGАААА	7440
CGCTATACTT	GTATTTGTTT	TTTCATTAAA	ATAAGAGTAG	AATAAATTAG	TATAGTAAAA	7500
CAAAAAAGCA	CCGAATCGGT	GCGCACTTTT	TCAAGTTGTG	TACGGACAAA	GCCTTATTTT	7560
AACTTTGCTA	TGTTGTTTCT	AATGGTTCCA	AAATAATAAA	AAATTTTAAT	TTTGACTTAA	7620
CTGTTGGAGT	AGTCATGGTT	AAATTAAATC	AACCGAGCCG	AACATAAGTT	GTTTAATTTT	7680
GTGGAAGCTA	TTAATAAAA	TATAATAAGG	GAGAAAGATA	GGTGTAATTT	TAATTTTAAA	7740
GTAATTGCGG	ACACTATCAA	AGAAAAAGAT	TATGGAGAAC	AAATTTGTAG	AATTTATCGA	7800
AAACAATAAA	AAAGTAATCA	TTTCATCAGT	TGCAGTTGGT	GTTGTATTGG	TATTAGGGTT	7860
TGGATGGTAT	TCATATAACC	AACAACAAGC	AGAACAACAA	GCAAAAATTG	TACAATTAGA	7920
AAAAGATAGC	AAATCAGACA	AAGAACAAGT	TGATAAACTA	TTTGAATCAT	TTGATGCATC	7980
TTCAGATGAA	TCTATTTCTA	AATTAAAAGA	ACTATCTGAA	ACTTCACTTA	AAACCGATGC	8040
AGGTAAAGAC	ТАТСТТААТА	ACAAAGTCAA	AGAATCATCT	AAAGCAATTG	TAGATTTTCA	8100
TTTGCAAAAA	GGTTTGGCTT	ATGATGTTAA	AGATTCAGAT	GACAAATTTA	AAGATAAAGC	8160
AACTCTTGAA	ACAAATGTAA	AAGAAATTAC	ААААСАААТТ	GATTTTATCA	AAAAAGTTGA	8220
TGAAACTTTT	AAACAAGAGA	ATTTGGAAGA	AACTCTTAAA	TCTCTAAATG	ATCTTGTTGA	8280
ТАААТАТСАА	AAACAAATCG	AACTTTTGAA	GAAAGAAGAA	GAAAAAGCTG	CTGAAAAAGC	8340
TGCTGAAAAA	GCAAAGGAAT	CTTCTAGTCA	AAGTAATTCT	TCTGGTAGTG	CTTCTAATGA	8400
GTCTTATAAT	GGATCTTCCA	ATTCAAATGT	AGATTATAGT	TCATCTGAAC	AAACTAATGG	8460
ATATTCAAAT	AATTATGGCG	GTCAAGATTA	TTCTGGTTCA	GGAGATAGTT	CAACAAATGG	8520
TGGATCATCA	GAACAATATT	CATCTAGCAA	TTCAAACAGC	GGAGCAAATA	ATGTCTACAG	8580
ATATAAAGGC	ACTGGTGCTG	ACGGCTATCA	AAGATACTAC	TACAAAGATC	ATAATAATGG	8640
AGATGTGTAT	GATGACGATG	GAAATTACCT	TGGGAACTTT	GGTGGCGGCA	TTGCAGAACC	8700
TAGTCAACGC	TAATAACTAT	TTTAGAGCTG	TGTTGTTTCG	AATGGTTCCA	AAACACATTA	8760
AAAGCTACTC	ATTTTTTAAG	TAGCTTTTTT	CTTATTCAAG	TTTACATATT	ATACTCAATG	8820
AAAATCAAAT	TCAAACCACG	TCAGCATCGC	CTTACCGTAG	GTATGGTTAC	TGACTTCGTC	8880
AGTTTCATCT	ACAACCTCAA	AACCATGTTT	TGAGCTGACT	TCGTCAGTTC	TATCTACAAC	8940
CTCAAAGCAG	TGCTTTGAGC	AACCTGCGGC	TAGCTTCCTA	GTTTGCTCTT	TGATTTTCAT	9000
TGAGTATTAG	TCGTCACAAT	CCCATTCCCT	TGTAGAAAAG	CAAAATGGCG	AGTCCTACGA	9060
ACAAGACTAC	CGCTCCTAAT	CTCTGGCTGG	TGTTATACAT	CCGTTTTTCT	CCTCTAACTG	9120

GAAAGATAAC	TGCTAGAAAT	GCGCCACCAA	CTGCACCACC	GATATGGCCT	GCTAGGCTGA	9180
TTCCTGGAAT	CAGAACACTT	CCAATAATGT	TAACCACAAA	AAGTGTCAGA	TAGGATTGCC	9240
CTAGCTGTTG	GATATAAGGA	TTGCGAGTTG	CATAGCGAAG	AACAATAATC	GCGGCAAATA	9300
GCCCATAAAG	AGAGGTAGAG	GCGCCTGCTG	CTAAGGATTT	AGGACTAAAT	ACAAAAACAA	9360
AGAGATTGCC	CATCATTCCT	GATAAAAGAT	AGAGAAAGAA	AAACTGCTTA	GAACCGAAAA	9420
TCTCCTCTAC	CTGCCTTCCA	AGATAATAAA	GTGAAAGCAT	ATTAACAATG	AAATGTTCCC	9480
ACCCAATATG	AACAAAAATG	GCAGACAAGA	GACGCCAAAC	CTGCTCGGGA	AAGAGGCGAA	9540
TAGCTGGCCC	ATACATGGCT	CCAAATCGAA	ATAATGTATC	TGCCCTGTCA	AAGTTTCCGC	9600
CTGCAGTGAC	CAACATTAGT	AAAAATACCA	AGGCCGTCAC	TAAGAGGAAG	AAACTCGTCA	9660
CAGGGTAACG	TCTATCAAAG	ATTTCCTTCA	TCAATTAATA	CCTCCTGAAC	AGGAATATCA	9720
TGGTTTTCAG	GTATAAAGTC	CTGAATTTGA	CAAGGATATA	TCGTACTCAA	AGTACGACCA	9780
GAAAAATGTT	CCAGATAGCG	GTCATAATAG	CCTCCACCGT	ATCCTATCCG	ATATCCTTTC	9840
GTCGTAAAAG	CCAGACCAGG	AACATGAATC	AAATCAATCT	GAGATGCATC	CACCACTTCC	9900
AAATCTCCCT	GTAGCTCCAG	TAAGGCAAAG	AAAGTTTTTA	CCAACTGTTG	CGGATCATAG	9960
ACCACAAAGT	CCATGCGCCC	CTTGGGATAA	GTTTTGGGTA	ттаааасстт	CTTGCCGTCC	10020
TTCAGCGCCT	GCTCAATCAG	TTCCTGCGTT	TGAAACTCAT	GAGAAAAAGA	GAGGTAGGTT	10080
GCGATGACCT	TGGCTTCTTG	ATAAAAGGGG	TGTTGTAAAA	GCCGCTCGGT	TAAAGCTTGG	10140
TCTATAGCCT	GTTTTTGCTC	TTGAGATATA	GCCTTCATTT	CATGCAAGAC	TTGCTTGCGT	10200
AATTCCGATT	TCATAGACAA	GCCCTCTATT	CTGCTGCCTT	CTTTTTCAGG	AAACTAGACA	10260
CCGCAGCCAC	CCCAATAGCT	AAGACTTCTT	CCTTAGGACT	CATTTGAGGG	TGATGAAGAG	10320
CGTAGGGACT	ATCGATACCT	AGCCAAAACA	TCACGCCATC	AACCTTTGAA	AGGAGATAAC	10380
CAAAGTCCTC	GCCTGTCATA	GCAGGTTCGA	TATCAATCAA	CTCGATTCCG	TCTTTTTCGT	10440
CAAAGAAGTC	CATCAGTTCA	CGCGCCAAGG	CTGGATTGTT	CTCAACAGGT	AGGTATCCAC	10500
CTTGTTTGAG	TTCCACTTCG	ACTTCCATAT	CAAAGGCAGC	TGCAACCCCT	TCTGCAACTG	10560
TTTTTACCCT	CTTTTGCACC	AAGAGACTCA	TGTCCTGTGT	CAAGGCACGA	ATAGTTCCAT	10620
GTAAAAAAGC	TGTGTCTGTG	ATGACATTGT	TGGTGGTTCC	AGCTTGAAAA	ACGCCGAAGG	10680
TCACCACTGC	TCCCTCGATT	GGGTTGACAT	TGCGGCTAAC	AACTGACTGC	ACTTGGGTCA	10740
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CTTTGCCTTT	GAAACGGATC	TTCACCTCGC	AAGTTCCTGC	AAAGAGTGTA	TGAGTATTAG	10860

			998			
TCGCAATCTG	GCCGACTTTC	AAATCTGGAC		ACCATAGAAT	TGATCTGGCA	10920
ACCAATCTCC	AAAAGCACCG	TCCTCATACA	TGAGCATACC	ACCAGCTTCA	TTTTCTTCAG	10980
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AGCCTAAGGC	AATGGTCATA	TGAAAATCAT	GGACACAGGC	ATGCATGCGA	CCTTGGTGTT	11100
GAGAAGCAAA	AGGTAGACCT	GTTTGTTCGA	CGATAGGCAG	GCCATCAATA	TCTGTCCGCC	11160
AACCAATGGT	TCGCTCCGGC	TGACTTCCCT	GCAGGTAGAC	СААААТСССТ	GTCCGCCAAG	11220
TACGAATTTG	AACAAAATCC	TTGCCCGTAG	TCAATTTCTC	AATCACATCC	AGCAAATAAG	11280
CCTGAGTCTT	GAACTCCTCC	AAGCCAATCT	CTGGAATCTG	GTGTAAATCT	CGTCTAGTCT	11340
GAATCAAATC	TAACATCTAT	CTGTCCTCCG	ATATAGCAGA	AAGAGGCTGG	AAAAAGGGTT	. 11400
CCGCCTCTTT	TTTACTTTTA	CAATTACAAG	GTACGAAGCG	CATCCTCTAG	CGCTGTTTTT	11460
TGTTGAGTTT	GGGCATCAAT	TTCTTTGATA	ATACGAGCTG	GAACACCTGC	TACTACCACG	11520
TTTTCTGGGA	CATCTTGGGT	AACAATAGCT	CCTGCTGCGA	CAACTGAACC	ACTACCGATT	11580
TGGACTCCTT	CGATAACCAC	TGCATTAGCA	CCGATAAGAA	CATTGTCTCC	GACACGGACT	11640
GGTTCAGCAC	TAGCTGGCTC	AATCACACCT	GCCAAAACTG	CACCTGCACC	AACGTGGCTA	11700
TTTTTTCCAA	CGATGGCACG	GCCACCAAGG	ATGGCACCCA	TGTCAATCAT	GGTTCCAGCA	11760
CCGATTTCAG	CACCGATATT	GATAACAGAT	CCCATCATGA	TAACAGCATT	GTCACCAATT	11820
TCCACCTGGT	CACGGATAAT	CGCACCTGGC	TCGATACGAG	CGTTGATAGC	ACGCTTATCT	11880
AGCAAAGGAA	CTGCAGAATT	ACGAGCATCT	TGCTCGACAA	CATAATCTTG	ATTTTCTACC	11940
AAACCTTCAA	GAAGCGGAGC	CACATCCTTC	CAGTCTCCGA	ATAGGACATT	TCCTAGTTTG	12000
ACAACAGAGC	TAGGCACAGC	AGTTGCGAGT	TGCCCCTCAA	AGGTTACTTT	GACACTGGTT	12060
TTCTTTTCAG	CATTGGCGAT	AAATTGGATA	ATTTCTTGAG	CGTTCATTTT	TGTAGCAGTC	12120
ATAGGTG						12127
(2) INFORMA	שר אורד אורדים	20 TD NO. 14	10.			

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 12566 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: double
   (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 149:

CCATCCTTCT GTTGATGTGA CAGGAATGAT GATAAATCAA CCAGTAGCTA GTCGCGAAGA 60 GGTGACAGAG GCTTTGAGTC ACTTGGCGGT AGAGCACAAT AGTCTCATTG CTCGTCGAAT 120

CGTTGAGCCA	AATGAAGCTG	GAGAAACACG	CTTTACCTAT	GCCACTTATG	GTGAGGGAAA	180
GCTTCCAGAA	GGTCTGACCA	TTTCCTCCAA	GGAGAGTGCA	GAAACGAGTG	ATTTATTAGG	240
GTCTTACTTG	ATTGTATCAG	GAAGTTTGGA	TGGAGTGAGC	TTACAGACCA	CCTTGAAAGA	300
GCTTGGTTAT	CAAGGCTTTG	TTTCGAATGG	AGAAGATCCA	TTTTCGATAG	TCTTACTATT	360
GACGGCCACC	CCTATGGTGC	TACTGAGTTT	AGCTATTTT	CTGCTGACCT	TTATGAGTCT	420
GACCCTGATŢ	TATCGGATCA	AATCCCTTCG	TCAGGCAGGG	ATTCGCTTAA	TAGCTGGTGA	480
GAGCTTGTTT	GGAGTTGCTC	TCAGACCAGT	GTTAGAAGAT	GTGAGACAGC	TTATCTGCTC	540
AGTGCTGGTA	TCCAGTCTTT	TGGGATTGGG	GATTCTCTGG	TATCAAGGTG	CCTTGTTTAT	600
GGCAACGGTG	CAACTGGTCA	TCATTGCTCT	TCTACTTTAT	GGATTGACCT	TGGCAGGGAT	660
ттстасстта	CTAAGTGTCG	TCTATCTACT	TGGTTTACAG	GAAAATAGTC	TGGTGGATCT	720
ATTGAAAGGG	AAACTCCCTC	TCAAACGTAT	GATGACATTG	ATGATGGTGG	GGCAACTCTT	780
AGCTGTATTG	GTGGTCGGAT	CGAGTGCGAC	AGCTCTCCTA	CCCCACTACC	GTGAAATGCA	840
GGAAATGGAG	AGAGCTAGCA	ATAAATGGAG	CCAGTCCTCA	GACCGTTACC	GTCTATCCTT	900
TGGTTGGTCT	AGTGCATTTG	CCGATGAAGA	AGGAACGCGT	AAGGATAATC	GTGAGTGGCA	960
GACATTTACT	GAAGAACGGT	TAGCCAATAC	AGACTCTTTT	TATATTATGA	GCAATGTTGA	1020
CAATTTCTCA	GATGGAGCAG	AAGTGGACCT	AGATGGCAAT	CGTCTCAGTG	ACTACACACC	1080
GTCAGGGAAT	GTTATCTATG	TCTCACCGCG	CTATCTGATA	GAAGAAAAGA	TTACCGTTTC	1140
TTCAGAGTTT	ATGGACAAGA	TGCAAAACTT	GTCTGAGGGA	GAGTTTGGGC	TGATCTTGCC	1200
TGAGAGCTTG	CGAGAGCAGT	CTGTCTACTA	CCAAGGATTG	TTTACAGATT	ACCTGCAAAA	1260
CTTTTCATCT	GAAAGTGTAG	AAGTGACGAG	TCAGAAACAC	TACCTCCCAC	AGGTAAGGCT	1320
AGCTTTTACA	GAAACAGGAC	AGGAACGTTT	CCTCTATAAT	GATGGGTACA	AGACAACACG	1380
CCAGTACCTA	AAAGATCCGA	TTATTGTAGT	TCTAACGCCG	CAAGCGACTG	GAACAAGACC	1440
TGTTGCAGGG	ATGTTGTGGG	GAACTACGGC	TAATAGTGCC	TTGAAACTAG	ATCGATATGG	1500
AGACAGCATC	ACAGCTCTAA	AAGAGAAAGG	TCTGTATCAC	AAGGTTTCTT	ACTTGGTAAA	1560
AAGCCAGCTA	TTTTTTGCCA	AGGTACTAAA	TGACAAACGG	GTGGAGTTTT	ACTCTCTCCT	1620
TATTGGGACG	ATTTTGACCC	TGTCTACGGC	TATCTTGTTA	TTTGATTCCA	TGAATCTTCT	1680
CTATTTTGAG	CAGTTCAGAC	GGGAACTTAT	GATTAAACGT	CTTGCTGGTA	TGACAATCTA	1740
TGAGCTTCAT	GGCAAGTATT	TACTGGCGCA	AGGAGGAGTT	CTCTTGCTTG	GCCTAGTCCT	1800
ATCTAGTATT	TTGACAAGAG	ATGGTTTGAT	TAGCGCTCTA	GTTGTAGCTT	TGTTTACGCT	1860

TAACGCCCTC	TTGATTTTAG	TAAGGCAGGA	1000 CAAAAAAGAA	GAAGCTGGTA	GCATGGCAGT	1920
ATTGAAAGGA	AAATAAGATG	ATTGATATTC	AAGGATTGGA	AAAGAAATTT	AATGACCGCG	1980
CGATTTTCTC	TGGTTTGAAT	CTCAAGCTGG	AGAAGGGCAA	GGTTTATGCC	TTAATCGGAA	2040
AGAGTGGAAG	CGGAAAGACG	ACGCTGCTGA	ATATCTTGGG	AAAGCTAGAA	AAGATAGATG	2100
GTGGAAGGGT	TCTCTATCAG	GGGAAAGATT	TAAAAACCAT	TCCCACTCGT	GAGTATTTTC	2160
GAGACCAGAT	GGGCTATCTC	TTTCAAAATT	TCGGCCTCTT	AGAAAACCAA	TCAATCAAAG	2220
AAAATTTGGA	TTTGGGTTTT	GTTGGTCAGA	AAATCTCAAA	AGTAGAACGT	TTGGAAAGGC	2280
AAGTGGGGC	TTTAGAAAAA	GTTAATCTAG	GGTATTTGGA	TTTAGAACAA	AAAATCTATA	2340
CTTTATCTGG	GGGAGAGGCC	CAACGAGTTG	CCCTTGCTAA	GACTATTTTG	AAAAATCCAC	2400
CCTTGATTTT	GGCAGATGAA	CCAACAGCAG	CTCTTGATCC	TGAAAATTCA	GAGGAGGTTA	2460
TGAATCTCTT	GGTGGATTTG	AAAGATGAAA	ATCGAATTAT	CATCATTGCG	ACCCATAATC	2520
CCCTAGTCTG	GAATAAGGCT	GATGAAATCA	TTGATATGAG	GAAACTTGCT	CATGTGTGAA	2580
AAAATCCGTA	TTCGCAGGGT	ATCTGATTAT	CCTAGTGCCA	GAGGTGGTTT	AGAAGATATC	2640
CTCATCATGG	AAAATATGAC	CAATCATCTC	CTTTTGGTTC	AAATCCGAGT	GCATGGCTAT	2700
TTGCTTGATT	TTGCTAGTAT	TGAAGGGCAA	AGGCAAAAGC	ATTATCGTTT	GAAAATTTA	2760
CCTCAGACGG	TTGAACTGAC	AGTGGATGAT	GTGGAGGAGG	ATGTGGATTT	GACCCTACCT	2820
GAAAATCGAA	GTTATCAAGA	AGCTGATTTT	TTTGAACGCA	TGTTTCGAGA	GAACTGCTAA	2880
GGCCACTTTT	AAAGATTTCC	AAGACTATCT	TTCTTCATGA	GGAAAGATAG	TTTTTTGGTA	2940
TGATTTTCAT	TCCCAAAATA	CAAGGGGAAT	GTGTTACAAT	AGTAGTAACA	GATAATAGAA	3000
AAGAGAATAG	ATGAGAATTG	CAGATTATAG	CGTGACCAAG	GCAGTGCTGG	AGCGTCACGG	3060
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AATTGTGGAT	ACGGCTGAAA	TTGATGATCA	GGTCAATGTC	ATCGAAATCG	GGCCAGGTAT	3180
TGGTGCCTTG	ACAGAATTTT	TGGCTGAGCG	TGCAGCCCAA	GTCATGGCTT	TTGAGATTGA	3240
CCACCGTTTG	GTGCCAATTT	TGGCAGATAC	CCTGCGTGAT	TTTGATAATG	TGACCGTAGT	3300
TAACGAAGAT	ATTCTCAAGG	TTGATTTGGC	GCAACATATC	CAGAATTTTA	AAAATCCTGA	3360
CCTGCCAATC	AAGGTAGTGG	CTAATTTGCC	TTACTACATC	ACGACGCCTA	TTCTCATGCA	3420
CTTGATTGAG	AGTGGCATTC	CTTTTTGTGA	GTTTGTGGTC	ATGATGCAGA	AAGAAGTAGC	3480
GGACCGCATT	TCAGCCCAGC	CTAACACCAA	GGCTTACGGT	AGCTTGTCTA	TCGCCGTGCA	3540
			CGTGCCTCGT			3600
AAATGTGGAT	TCAGCCATCT	TGAAAATGGT	GCGTCGTCCA	GAGCCAGCCG	TAGCAGTAGA	3660

AGATGAGAAC	ТТТТТСТТТА	AGGTTTCCAA	GGCTAGTTTT	ACCCATCGCC	GCAAGACCTT	3720
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GGCTTTGGAC	CAGGCAGGCT	TGTCACCAAG	TGTGCGTGGG	GAAGCTCTCA	GCTTGGCAGA	3840
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CTGCCGAGGA	AAATTCAGAA	GGCTATATCC	TCAAAATTCA	CGAACGGAAA	AACAGTCTGG	4080
TTCGTCCGCC	TATTGTCAAT	ATCGATCAAG	CTGTAGTAAT	CATGTCCGTC	AAGGAACCTG	4140
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TCAATAAAAT	CGCACCAGAC	CTCAATCTTG	AAACGGGAGA	AATTTCAGAC	AGTCTAGGTC	4440
GCGGTCGCCA	TACCACTCGA	GCTGTTAGTT	TTTACAATCT	CAACGGGGGT	AAAATCGCAG	4500
ATACACCAGG	ATTTTCATCC	TTGGACTATG	AAGTATCAAG	GGCTGAAGAC	CTCAATCAGG	4560
CTTTCCCAGA	GATTGCTACT	GTTAGCCGAG	ATTGTAAGTT	CCGTACTTGT	ACCCATACCC	4620
ATGAGCCGTC	TTGTGCCGTC	AAACCAGCTG	TTGAAGAGGG	TGTTATTGCA	ACCTTCCGTT	4680
TTGACAATTA	CCTGCAATTC	CTTAGTGAAA	TTGAAAATCG	TAGAGAAACC	TATAAAAAAG	4740
TCAGCAAAAA	AATTCCAAAA	TAAGGAGAAA	CCTATGTCTC	AATACAAGAT	TGCTCCGTCA	4800
ATTCTGGCAG	CAGATTATGC	CAACTTTGAA	CGTGAAATCA	AACGTCTAGA	AGCAACTGGG	4860
GCAGAATATG	CCCATATCGA	TATCATGGAC	AGTCATTTTG	TACCGCAAAT	CAGTTTTGGT	4920
GCAGGTGTGG	TCGAGAGCCT	TCGTCCTCAT	AGTAAGATGG	TTTTCGATTG	CCACTTGATG	4980
GTGTCAAACC	CTGAGCATCA	TCTGGAAGAT	TTTGCGCGTG	CAGGTGCAGA	CATCATCAGT	5040
ATCCATGTAG	AAGCAACGCC	TCATATTCAT	GGCGCCCTCC	AAAAAATTCG	TTCACTCGGA	5100
GTTAAGCCTT	CAGTCGTTAT	CAATCCTGGC	ACATCAGTTG	AAGCCATCAA	GCACGTCCTT	5160
CATCTAGTTG	ACCAAGTTTT	AGTCATGACG	GTTAATCCAG	GTTTTGGTGG	GCAAGCCTTT	5220
CTGCCAGAAA	CCATGGATAA	GGTCCGTGAG	TTGGTTGCTC	TTCGTGAGGA	AAAAGGTTTG	5280
AACTTTGAAA	TCGAAGTGGA	TGGTGGGATT	GATGACCAAA	CTATTGCTCA	AGCCAAAGAA	5340
GCCGGTGCGA	СТСТТТТТСТ	AGCAGGTTCC	<b>ጥልጥርጥር</b> ጥጥጥል	AGGGAGAAGT	CAATGAGCGA	5400

1002 GTACAAACTC TCAGAAAACA ACTGGACTAG GGTTGCAGTT TTTGCAGGCG GAAACCGCGG 5460 TCATTATCGG ACAGATTTTG ATGCTTTTGT TGGGGTGGAT CGAGGCTCGC TCTGGGTCTT 5520 GGAAGAAGAC TTACCTCTTG CTCTAGCAGT CGGAGATTTT GATTCTGTGA CGGAAGAAGA 5580 GCGACAGGTG ATTCAAAAAG GTGCCCAGTA TTTTGTCCAA GCACGACCAG AAAAGGATGA 5640 TACAGATCTG GAATTGGCTC TCTTAACCAT CTTTGAACAA AATCCTCAGG CTCAGGTCAC 5700 TATTTTCGGT GCCTTGGGTG GCCGTATTGA CCATATGTTG GCCAATGTCT TTCTGCCTAG 5760 CAATCCTAAG TTGGCACCCT ATATGCATCA AATAGAAATT GAGGATGGGC AAAACTTGAT 5820 TACTTATTGT CCAGAAGGAA TCAGTCAGCT AGAACCTCGT TCAGACTACG ACTATCTAGC 5880 CTTTATGCCA GTTCGGGATA GCCAGCTGAC TATTCTTGGA GCCAAGTATG AGTTGACAGA 5940 GGAAAATTTT TTCTTTAAAA AAGTGTACGC TTCTAACGAA TATATAGATA GGGAAGTGTC 6000 GGTAACTTGC CCAGATGGTT ATGTGGTCGT ACTGCATAGC AAGGACAGGA GGTAGGATGG 6060 AAAGTTTACT TATTCTATTA TTAATTGCCA ATCTAGCTGG TCTCTTTCTG ATTTGGCAAA 6120 GGCAGGATAG GCAGGAGAAA CACTTAAGTA AGAGCTTGGA GGATCAGGCA GATCATTTGT 6180 CAGACCAGTT GGATTACCGC TTTGACCAAG CCAGACAAGC CAGCCAGTTA GACCAAAAAG 6240 ATTTGGAAGT GGTTGTCAGC GACCGTTTGC AAGAAGTGCG GATTGAATTG CACCAAGGTC 6300 TGACCCAAGT CCGTCAAGAA ATGACAGATA ATCTCCTCCA AACTAGAGAC AAGACAGACC 6360 AACGTCTCCA AGCCTTGCAG GAATCAAATG AGCAACGTTT GGAACAAATG CGCCAGACGG 6420 TCGAGGAAAA ACTAGAAAAG ACCTTGCAGA CACGCTTACA GGCTTCCTTT GAGACAGTTT 6480 CTAAACAACT GGAGTCTGTC AATCGTGGCC TTGGAGAAAT GCAGACAGTT GCCCGTGATG 6540 TCGGAGCTCT TAACAAGGTT CTCTCTGGAA CCAAGACGCG AGGGATTCTG GGAGAATTGC 6600 AACTGGGGCA AATTATTGAA GACATCATGA CACCTGCCCA GTACGAACGA GAATACGCAA 6660 CGGTTGAAAA CTCTAGTGAA CGAGTGGAGT ATGCCATCAA GTTACCCGGA CAAGGCGACC 6720 AAGAATACGT CTATCTGCCA ATTGACTCTA AGTTTCCACT GGCAGATTAT TACCGCTTGG 6780 AAGAAGCCTA TGAGACAGGT GACAAGGATG AGATTGAACG CTGTCGTAAG TCACTCCTAG 6840 CAAGCGTCAA GCGCTTTGCT AGGGATATTA GGAACAAGTA CATAGCACCA CCTCGGACGA 6900 CCAATTTGG AGTTTTGTTT GTTCCGACAG AAGGTCTCTA CTCAGAAATC GTCCGCAATC 6960 CGGTCTTCTT TGATGATTTG AGACGGGAAG AACAGATTAT TGTTGCAGGA CCAAGTACCC 7020 TATCAGCCCT TCTTAACTCC CTATCAGTTG GTTTCAAGAC CCTTAATATC CAAAAGAGTG 7080 CCGACCATAT CAGCAAGACT CTTGCCAGTG TCAAGACCGA GTTTGGCAAG TTTGGTGGTA 7140 TTCTGGTCAA GGCACAAAA CATCTCCAAC ATGCCTCTGG CAATATTGAT GAATTATTAA 7200

ACCGTCGTAC	CATAGCTATC	GAGCGGACGC	TCCGTCACAT	TGAGTTGTCA	GAAGGTGAGC	7260
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AAAAAAGATG	AGTTATTTGA	AGGCTTTTAC	CTAATCAAAT	CAGCTGACCT	GAGGCAAACT	7380
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ATGAAAGGAC	GCCGAGAAGT	TTATAACAAT	ACCCCTCAAG	TCAATCAAAT	TACTCTCCGC	7560
CTGCCTCAAG	CTGGTGAACC	CAATGACCCA	GCTGATTTCA	AGGTCAAGTC	ACCAGTTGAT	7620
GTCAAGGAAA	TTCGTGACTA	CATGTCGCAA	ATGATTTTCA	AAATTGAAAA	TCCTGTCTGG	7680
CAACGGATTG	TCCGAAATCT	CTACACCAAG	TATGATAAGG	AATTCTACTC	CTATCCAGCT	7740
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гтстатааас	CAGATTTAGA	TTAATAATTT	AAGAAAAATG	AGCATTTTTT	AGGATAAGAA	8280
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TAGTCTCAA	TACTTTTGCT	GAAAAGTATG	AGTCTGCTAA	ATCATCCATC	TCAGAAGATA	8640
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			1004			
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ATGTTGAGGT	TGGCAATATC	TTTGACGAAG	<b>ATAAATAAGA</b>	GATAGAACTA	AAGGTTGGAA	9360
CGATTGTCCC	AGCCTTTCTT	TGCAAACAGA	ATAGAAGGAA	GCTTATGAAA	ACACCATTTA	9420
PCAATAGAGA	AGAGTTAGAA	GCGATTGTTG	CCGAGTTCCC	GACTCCCTTT	CACTTGTATG	9480
ATGAGAAGGG	GATTCGTGAG	AAGGCAAGAG	CCGTCAACCA	AGCTTTTTCG	TGGAACAAGG	9540
GCTTTAAGGA	ATATTTTGCA	GTTAAGGCTA	CTCCAACTCC	AGCTATTTTG	AAAATTCTCC	9600
AAGAAGAAGG	TTGTGGTGTG	GACTGCTCTA	GTTATGTAGA	GCTTTTGATG	AGCCATAAAC	9660
rggactttct	GGGTTCTGAG	ATTATGTTCT	CTTCCAACAA	CACGCCAGAC	AAGGAATACG	9720
CCTATGCACG	TGAATTGGGT	GCGACCATTA	ACTTGGATGC	CTTTGAAGAT	ATTGAACATC	9780
rggagagagt	AGCAGGCATT	CCAGAAATCA	TCTCTTGTCG	TTATAATCCT	GGAGGCGTTT	9840
PTGAACTGGG	GACAGACATT	ATGGACAATC	CTGGGGAGGC	TAAGTTTGGC	ATGACCAAGG	9900
ACCAGCTCTT	TGAAGCCTTT	GCTATCTTGA	AGGAAAAAGG	AGCCAAGACT	TTTGGGATTC	9960
ACTCCTTCCT	AGCGTCCAAT	ACCGTGACCC	ATCTCTATTA	TCCAGAGTTG	GCTCGTCAGC	10020
PCTTTGAACT	GGCTGTTGAA	ATCAAGGAAA	AGTTGGGCAT	TTCGCTAGAC	TTTATCAATC	10080
TTCTGGCGG	TATTGGTGTT	AATTATCATC	CAGACCAGGA	GCCGAACGAT	ATCGCCTTGA	10140
TTGGTGAGGG	AGTTCGTAAG	GTGTATGAAG	AGGTTCTTAC	GTCAGCAGGT	CTTGGTCAGG	10200
CAAGATTTT	CACCGAATTG	GGTCGTTTTA	TGCTGGCACC	TCACGGTGCT	CTAGTCACAA	10260
SAGTCACTCA	TAAGAAGGAA	ACCTACCGTA	CCTATCTAGG	TGTGGATGCC	TCAGCAGTCA	10320
CCTCATGCG	TCCAGCTATG	TACGGAGCTT	ACCATCATAT	TAGCAACGTG	ACCCATCCAG	10380
TGGACCAGC	TGAAGTGGTA	GATGTGGTCG	GTTCACTCTG	TGAAAACAAT	GATAAATTTG	10440
AGTTAATCG	CGAACTGCCT	CATACAGAAA	TCGGTGATTT	GCTGGTCATT	CATGATACAG	10500
TGCCCACGG	ATTTTCAATG	GGCTACCAGT	ATAATGCCAA	ATTACGTTCT	GCGGAAATCC	10560
CTATACCGA	AGAAGGTAAA	GCCCGTCAAA	TCCGCCGTGC	AGAGCGCCCT	GAGGACTATT	10620
TGCAACCTT	ATATGGCTTC	GATTTTGAAG	AATAATCTGA	TAATAGATTG	AAAATGAAAT	10680
GAAAAACAG	ATTGCTTTCT	AAAAAATAGG	CAAAAATCTT	GTTTTTCCTT	CAAGTCGTGA	10740